Books

Based on the Syllabus prescribed by National Council of Educational Research and Training (NCERT)



Teacher's Manual (Class 3-4)

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Numbers beyond 999

Exercise 1.1

1. Write the numbers:

- a. Th H T O 3 0 2 5

- d. Th H T O

2. Count the beads and write the number and number name:

Th H T O 5 6 0 1

five thousands six hundreds one.

b. Th H T O

seven thousands three hundreds eighty five.

nine thousands four hundreds sixty three.

d. Th H T O 5 6 1 3

five thousands six hundreds thirteen.

Represent the number on the abacus. 3.

a. 8075



b. 4365



5368



- 4. Write the number names.
 - a. 3009

Three thousands nine.

b. 3750

Three thousands seven.

c. 8309

Eight thousands three hundred nine.

d. 4325

Four thousands three.

e. 2156

Two thousands one hundred fifty six.

f. 4196

Four thousands one hundred ninety six.

g. 9460

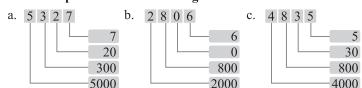
Nine thousands four hundreds sixty.

g. 9460

Nine thousands four hundreds sixty.

Exercise 1.2

1. Write the place values of each digit :



2. Write the place value of the coloured digit :

* *	i ite tiie	place value of the	corou	i ca aigi	
a.	6149	40	b.	9142	100
c.	3892	3000	d.	1455	5
e.	4695	600	f.	4368	4000
g.	2615	600	h.	8712	8000
i.	8216	200	h.	4501	0

3. Write the following numbers in expanded form.

- a. 4680 = 4000 + 600 + 80
- b. 3210 = 3000 + 200 + 10
- c. 7690 = 7000 + 600 + 90
- d. 5687 = 5000 + 600 + 80 + 7
- e. 9080 = 9000 + 0 + 80
- f. 2167 = 2000 + 100 + 60 + 7

4. Box the correct numeral.

a.	6340	6403	6043	b.	403	430	4003
c.	5060	5006	5600	d.	7090	7009	7900

- c. 5060 5006 5600 d. 7090 7009 7900 e. 800 8000 80 f. 3080 3800 3008
- g. 9590 9905 9095

Exercise 1.3

1. Compare each pair of numbers, Put > or < in the ___:

- a. 1573 < 2451 b. 5401 < 6400 c. 3795 < 4379
 - d. 2716 < 2716 e. 4995 < 4997 f. 113 < 1120
- g. 4375 < 4376 h. 7830 > 7730 i. 9003 < 9008
- j. 8592 < 9582 k. 2618 > 84 l. 6129 < 6058

2. Rewrite the numbers in increasing or ascending order.

a. 1216b. 292912341243310692929993

c.	2506	9432	9377	9237
А	4586	5586	6658	7586

3. Rewrite the numbers in decreasing or descending order.

a.	9675	7265	5625	2175
b.	5430	4350	3450	345
c.	9732	9432	9377	9237
А	6502	2850	2750	2650

Mental Maths

A. Fill in the blanks:

- 1. 10 hundreds = 1 thousand
- 2. 1 hundred = 100 ones
- 3. 1000 ones = 1 thousand
- 4. 1000, 150, **200**, 250, **300**, **350**.
- 5. If we add 1 to the greatest three digit number, we get the smallest four-digit number.
- 6. If we subtract one from the smallest three-digit number, we get the **greatest** two-digit number.

Exercise 1.4

1. Form the smallest and greatest numbers using the given digits.

	Digits	Greatest Number	Smallest Number
a.	1,8,3,0	8310	1038
b.	9,3,5,4	9543	3459
c.	1,6,3,5	6531	1365
d.	1,5,9,7	9751	1579
e.	0,9,3,2	9320	2039

2. Round off to the nearest ten.

a.	90	b.	60	c.	80	d.	60
e.	20	f.	40	g.	50	h.	60
i.	100	j.	20	k.	30	1.	20

3. Separate and write the even and odd numbers into their respected boxes.

Even numbers	Odd numbers
2054, 2866, 856, 9876, 7178 328, 2156, 51, 3198, 2466, 664, 198	579, 5649, 2001, 3431, 4075

4. Match the following.

	O	
	Number	Rounded off to nearest 10
a.	94 _	_ i. 50
b.	11	ii. 100
c.	46	iii. 70
d.	68	iv. 10
e.	95	v. 90

- 5. Write True or False.
 - a. False b. True c. True d. False e. False f. True
- 6. Write five numbers backward from the given numbers.
 - a. 5642, 5641, 5640, 5639, 5638
 - b. 9288, 9287, 9286, 9285, 9284
- **7. Ans.** Two thousand fifteen students.
- **8. Ans.** 1986 > 1896 So, school × has more students.
- **9. Ans.** 160 people rounded of to nearest 10.
- 10. Ans. The greatest number is 8653 using digit.

Fun with Maths

Write the place value of the coloured digit.

- **Ans.** 1. 6 tens 2. 8 hundreds 3. 5 ones
 - 4. 4 tens 5. 1000 hundreds

Multiple Choice Questions

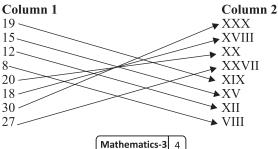
Tick (✓) the correct choice:

Ans. 1. c. 9000 2. c. 3109 3. c. 9567 4. b. 3712

2 Roman Numerals

Exercise 2.1

1. Match the columns:



- 2. Write the number name for each of the following. Also write the corresponding Hindu. Arabic numeral.
 - b. Sixteen 7 c. thirty four 34 d. fourteen 14 e. thirty nine 39
 - f. thirty five 35 g. nineteen 19 h. thirty one 31 i. thirty 30
 - . eighteen 18
- 3. Write True or False.
 - a. False b. Tr
 - b. True c. False
 - d. True
- **4.** Write the answers about yourself in Roman numerals. Do it yourself.

Mental Maths

Write the time shown in the clocks.

Ans.



8 o'clock



6 o'clock



11 o'clock

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. c. XXVIII 2. a. zero 3. a. 34

4. c.X

Fun with Maths

Read the message by decoding the Roman numeral.

Ans.

XIII	XXVI	XX	VIII	XIX
M	A	T	Н	S

IX	XIX
I	S

VI	XXI	XIV
F	U	N

Ans. = Maths is fun.

Look Back

Read the statements and solve the questions.

1. Ans. 59 times.

2. Ans. Total weight of both is 43 kg

3. Ans. Total runs scored by them by them are 80 runs.

Mental Maths

Fill in the blanks using addition facts.

Ans. 1. 875 + 0 = 875

- 2. 154 + 0 = 1544. 5349 + 1 = 5350
- 3. 9231 + 0 = 9231
- 5. 2321 + 1427 = 1427 + 2321 6. 1110 + 1230 = 1230 + 1110

Exercise 3.1

1. Fill in the blanks:

Ans. a. 0 + 454 = 454

- b. $8708 + \mathbf{0} = 8708$
- c. 956 + 3794 = 3794 + 956
- b. 8691 + 1 = 8692

2. Add:

- Ans. a. Th H T O 7 2 5 6 + 1 5 3 2 8 7 8 8
- b. Th H T O 9 2 5 1 +0 7 4 8 9 9 9 9 9
- C. Th H T O 4 4 3 6 +2 5 3 2 6 9 6 8
- Th H T O
 3 4 5 1
 +2 3 2 0
 5 7 7 1

- e. Th H T O 5 2 3 4 + 1 4 3 2 6 6 6 6 6
- f. Th H T O 6 3 2 1 +2 4 6 7 8 7 8 8

į.

- g. Th H T O 1 2 5 3 +6 3 4 2 7 5 9 5
- h. Th H T O 3 6 5 4 + 5 1 3 4 8 7 8 8

- i. Th H T O 4 2 3 8 1 1 2 0 +3 5 3 0 8 8 8 8
- Th H T O 5 0 0 8 +1 2 5 0 3 0 1 1 9 2 6 9
- k. Th H T O 4 1 6 7 +1 2 1 0 1 3 2 1 6 6 9 8
- Th H T O 7 0 0 2 +1 1 0 0 1 0 5 6 9 1 5 8

3. Arrange the following in columns and add.

Ans. a.
$$3316 + 2150 = 5466$$

b.
$$3067 + 4222 + 1000 = 5466$$

c.
$$5217 + 1431 = 6648$$

d.
$$5143 + 3534 = 8677$$

e.
$$8000 + 1000 = 9000$$

f.
$$2364 + 7123 = 9487$$

g.
$$3567 + 4222 + 1000 = 1000$$
 h. $3251 + 1403 + 4162 = 9487$

h.
$$3251 + 1403 + 4162 = 948$$

i.
$$3726 + 2152 + 1011 = 6889$$
 j. $4302 + 3024 + 2430 = 9756$

Exercise 3.2

1. Add:

\bigcirc 1 \bigcirc 1 1	
$\begin{array}{c c} \bigcirc \bigcirc$	
4 2 4 + 2 1 7	6
9 6 1 5 9 3	0

2. Solve in your notebooks :

Ans. a.
$$6175 + 3250 = 9425$$

Th

3

6

b.
$$7354 + 1487 = 8841$$

c.
$$5897 + 4033 = 9930$$

	Th	H	T	(
	5	8	9	7
+	4	0	3	3
	9	9	3	C

d.
$$4645 + 5276 = 9921$$

e.
$$1095 + 2345 = 3440$$

	Th	H	T	0
	1	$\widetilde{0}$	9	5
+	2	3	4	5
Г	3	4	4	0

f.
$$5593 + 2330 = 7923$$

g.
$$4235 + 4583 = 8818$$

	Th	H	T	0
	4	2	3	5
+	4	5	8	3
	8	8	1	8

h.
$$1999 + 6399 = 8398$$

i.
$$2740 + 3887 = 6627$$

j.
$$5110 + 3987 = 9097$$

k.
$$8029 + 1375 = 9404$$

	Th	Н	T	0
		1	1	
	8	0	2	9
+	1	3	7	5
	9	4	0	4

m.
$$6374 + 2518 = 8892$$

	Th	H	T	0
	,	2	1	4
	6	3	7	4
+	2	5	1	8
	8	8	9	2

1.
$$6998 + 2238 = 9233$$

n.
$$1999 + 6399 = 8398$$

	Γh	H	T	0
	1	9	9	9
+	6	3	9	9
Т	8	3	9	8

4. Add the following numbers: a. 9237 + 1085 + 4827

$$= 15149$$

$$\begin{array}{cccc}
\text{Th H T O} \\
\hline
\end{array}$$

Th	Н	T	O
1	1	1	
9	2	3	7
1	0	8	5
+ 4	8	2	7
1 5	1	4	9

Th	Н	T (2)	О
1	3	2	6
2	1	0	8
+ 9	0	4	6
1 2	4	8	0

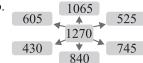
Th	H	T	0
1	1	1	
3	0	1	3
1	5	8	0
+ 2	6	0	7
7	2	0	0

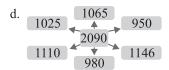
5. Complete the boxes by writing the number given in centre as the sum of two numbers in different ways.

Ans. a.



b.





Exercise 3.3

1. First find the actual sum and then estimated sum:

240

930

+690



c.

b.

d.

2. Estimate the sum to the nearest 10's by first rounding off the numbers. :

Ans. a. Rounding off the numbers to the nearest 10's

$$348 \longrightarrow 350$$

$$472 \longrightarrow 470$$

243

934

+691

$$Actual sum = 830$$

b. Rounding off the numbers to the nearest 10's

$$2651 \rightarrow 2650$$

$$1279 \rightarrow 1280$$

Actual sum
$$= 3930$$

Estimated sum =
$$3930$$

c. Rounding off the numbers to the nearest 10's

$$1295 \rightarrow 1300$$

$$2365 \rightarrow 2370$$

Actual sum =
$$3660$$

Estimated sum =
$$3670$$

Hots

Ans. Hariti has 3565 stamps, Noni has 3740 stamps and Mohan has 3740 stamps and Mohan has 3575 stamps.

Exercise 3.4

1. Ans. 5792 clocks produced 2. Ans. There are 8002 in both days.

	Th	Н	T	0
	3	2	2	1
+	2	5	7	1
	5	7	9	2

3. Ans. There were 1643 students in school in 2017.

	Th	Н	T	O
		1	1	
	1	4	5	4
+		1	8	9
I	1	6	4	3

5. Ans. There were 1643 students in school in 2017.

	Th	Н	T	0	
	6	2	4	5	
+	2	4	3	0	
	8	6	7	5	

7. Ans. There are 947 packets 8. Ans. There are 1437 of milk in the dairy.

	Th	H	T	0
	6	2	4	5
+	2	4	3	0
	8	6	7	5

9. Ans. There were 2237 pencils in all.

people in all in the village.

	Th	H	T	0
(1	2	(1)	
	1	5	9	2
	1	1	4	2
+	5	2	6	8
	8	0	0	2

4. Ans. Both boths contain 3025*l* milk.

	Th	Н	T	C
		1	1	
	1	7	4	5
+	1	2	8	0
	3	0	2	5

6. Ans. Both boths contain 3025*l* milk.

students in present in the school.

10. Ans. The library bought books in all.

	Th	Н	T	0
	2	9	4	7
+	- 5	0	5	0
	7	9	9	7

11. Ans. There are 1159 flowers in the garden.

	Th	H	T	0
		3	7	5
		6	4	2
+		1	4	2
	1	1	5	9

13. Ans. Sanya has 2386 marbles now.

12. Ans. 4571 people visite in th Science Museum.

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. b. 1185 2.

2. b. number itself

3. a. 1577

Mental Maths

Complete the addition towers.

Ans. 1.

1.			61	12			
	27		74	338			
	11	0	164		17	74	
2	24 8		6	5 7		9	6

2

۷.			4	12			
		2	18	194			
	12	29	89		109		
5	6	7	3 1		6	8	9

Fun with Maths

In a magic square, the four numbers in each row, column and diagonal add up to the same total.

Ans. a.

1	15	14	4
12	6	7	9
8	10	11	5
13	3	2	16

b.

4	14	15	1
9	7	6	12
5	11	10	8
16	2	3	13

4 Subtraction

Look Back

Find:

1. Ans. 47 hens.

2. Ans. 53 sheep are more than cows.

3. Ans. 40 Animals will not get food eat.

Exercise 4.1

1. Fill in the blanks:

a.
$$4569 - 4569 = \mathbf{0}$$

b.
$$358 - 1 = 357$$

- c. 2974 2974 = 0
- d. 7414 0 = 7414
- 2. Find the difference in each of the following:

j.

- b. Th H T O 4 6 7 5 -2 4 2 2 2 2 5 3
- C. Th H T O 9 5 2 9 -6 2 0 8 3 3 2 1
- d. Th H T O 3 4 4 4 4 -1 2 1 2 2 2 3 2

- e. Th H T O
 (6) (3) 4) (6)
 7-3-5-6
 -2-4-2-9
 4-9-2-7
- Th H T O 7 14 5 15 8 4 6 5 -5 6 2 8 2 8 3 7
- g. Th H T O 2 12 6 12 3 2 7 2 -2 6 5 3 0 6 1 9
 - h. Th H T O 6 13 12 5 7 4 2 -2 3 5 4 3 3 8 8

- i. Th H T O
 6 (3)(12)
 5 7-4 2
 -2 2 5 4
 3 4 8 8
- Th H T O 7 17 8 11 5 7 9 1 -4 8 5 7 0 9 3 4
- Th H T O
 7 (3 (1) (6)
 8 4 2 6
 -6 7 5 8
 1 6 6 8
- 1. Th H T O 8 15 12 9 9 6 3 -7 7 6 4 2 1 9 9

- m. Th H T O n.
 6 3 4 16
 7 2 4 1
 -6 4 7 2
 0 7 6 9
- Th H T O 7 (3 (10 (16) 8 4 1 6 -3 7 4 8 4 6 6 8
- p. Th H T O

 8 5 4 3

 -6 4 2 3

 2 1 2 0

3. Write the numbers in the columns and subtract.

Ans. a. 5346 - 4142 = 4142

Th H T O 5 3 4 6 - 1 2 0 4 4 1 4 2 b. 9658 - 7247 = 2411

Th H T O 9 6 5 8 - 7 2 4 7 2 4 1 1

c. 6746 - 1623 = 5123

Th H T O 6 7 4 6 - 1 6 2 3 5 1 2 3 d. 8798 - 5167 = 3631

Th H T O 8 7 9 8 - 5 1 6 7 3 6 3 1

e. 7864 - 2416 = 5448

Th H T O S 14 7 8 6 4 - 2 4 1 6 5 4 4 8 f. 8543 - 8423 = 120

Th H T O 8 5 4 3 - 8 4 2 3 1 2 0

Exercise 4.2

1. Find the difference:

a. $4569 - 4569 = \mathbf{0}$

- b. 358 1 = 357
- c. 2974 2974 = 0
- d. 7414 0 = 7414
- 2. Find the difference in each of the following:

a. Th H T O (4)(15)(15) 5 6 5 6 -4 8 9 2 0 7 6 4

6(1)6(12 ++++2 -3 4 2 3 3 7 4 9

b. Th H T O

- e. Th H T O
 6 [3 4 [6
 8-7 4-5
 -4 1 8 2
 4 5 6 3
- f. Th H T O 7 (14/5) (15) 9 8 1 3 -2 3 5 7 7 4 5 6
- 2. Find the difference in each of the following:

a. H T O (5) 9 (14) & & & 4 - 9 5 | 5 0 4

- b. H T O 8 9 10 9 0 0

c. H T O 6 (1) (15) 7 2 0 - 2 7 4 4 4 6

3. User shortcut to subtract.

e.

e.
$$7000 - 6459 = 541$$

Subtract 1 from both sides $7000 - 1 =$ **Th H T O** $6459 - 1 =$ 6 9 9 9

f.
$$9000 - 7864 = 1136$$

Subtract 1 from both sides
 $9000 - 1 =$ Th H T O
 8999
 $-7864 - 1 =$ 8 9 9 9
 -78663

h.
$$4000 - 2125 = 1875$$

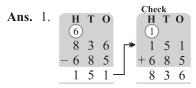
Subtract 1 from both sides
 $4000 - 1 =$ Th H T O
 $2125 - 1 =$ 3 9 9 9
 -2 1 2 4
 1 8 7 5

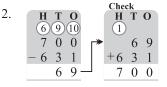
i.
$$3000 - 1050 = 1950$$

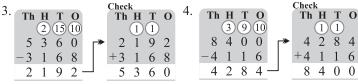
Subtract 1 from both sides
 $3000 - 1 =$ Th H T O
 $2 9 9 9$
 $-1 0 4 9$
 $1 9 5 0$

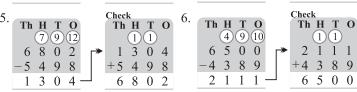
Exercise 4.3

Subtract each of the following and check the answers by addition.









Exercise 4.4

1. Solve the following.

Ans. a.
$$394 + 683 - 472 = 4142$$

b.
$$1594 + 2061 - 1998 = 2411$$

c.
$$4645 - 3878 + 1750$$

= 2517

d.
$$3165 + 350 - 2173$$

= 1342

	Th	H	T	0	-	Th		T	
	3	1	6	5		3		1	
-	+	3	5	0	_	2	1	7	3
	3	5	1	5		1	3	4	2

2. Estimate the answer by rounding off the numbers. solve to check your answer.

Hots

A shopkeeper had 135 eggs out of them 78 eggs he sold. How many eggs are left with him now? 1 3 5 eggs - 7 8 eggs eggs

Th H T (1)(15)(17)

Exercise 4.5

Subtract and do the following sums.

Ans. 1. Total passengers at railway station

Boarded passengers from railway station

passengers from railway station

= 0.04

 $\begin{array}{ccc} \text{way station} &= & -1 & 6 & 8 & 5 \\ \text{on} &= & & 9 & 9 & 4 \\ \end{array}$

Ans. 994 passengers are still waiting.

2. Total people = 5 9 2 6 Men = 1 0 6 5 = Children = + 2 2 0 5 =

Total of man and children = 3270 \therefore Number of women = 5926 - 3270

= 2656

Ans. The cost of T.V. set is ₹408 more.

3. 9000 > 8592 = Th H T O Cost of T.V. set is more = 9 0 0 0 0 Cost of T.V. = -8 5 9 2 Cost of working machine = ₹ 4 0 8

Ans. The cost of T.V. set is 408 more than washing machine

4. Total savings in both months = ₹(3563 + 4218)= ₹7781

Total expenditure = -₹ 6 0 1 0 Money is still left with Vineet =₹ 1 7 7 1

Ans. ₹1771 are still left with Vineet.

5. A man has sweets = 4000Total distribute sweets = (1356 + 2000)

= 3356Sweets are left = 4000 - 3356

= 644

Ans. 644 sweets are left with the man.

Ans. Amita needs ₹350 to buy the shoes.

Ans: There are 1822 red roses in the garden.

9. Team A made = 274 runs

Team B will nead to win = 275 runs= 183 runsTeam b had made Tea B will need more runs = 275 - 183=92 runs

Ans: Tea b will need 92 more runs, to win.

10. Total children

Number of children below the age of fifteen Number of children above the age of fifteen

Ans. 4285 children were above the age of fifteen.

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. a. add 2. b. 766 3. a. 385 4. a. 4473

Fun with Maths

Colour the clouds red if the answer is a 1-digit number, green if it is a 2-digit number and yellow if it is a 3-digit number. One has been done for you.

Ans.

	(ó	6				4	3	3	
	2	2	6				-2	2	2	
		1	0				2	-	1	
(Gre	een	ı				Yellow			
5	1	5	4				9	Ö)	
1	3	7	4				-2	2	2	
	7	8	0				7	7	7	
١	Æll	ow	7				Yellow			,
5	5	4	4				4	8	7	
ó	5	2	4				- 4	4	0	
)	0	2	0					4	6	
(Green Yellow				,					
					Ma	th	ema	tic	s-3	Γ

Multiplication

Look Back

1. Fill in the blanks in the given clues. Then complete the crossword by writing the answer in words. We have filled some blanks to guide you.



Across

- 6. Four sevens = 28
- 7. $8 \times 8 = 64$
- 8. 3 times 6 = 18
- 9. $5 \times 4 = 2 \times 10$
- 10. $9 \times 5 = 45$
- 11. $10 \times 9 = 90$

Down

- 1. Double of 7 = 14
- 2. Successor of 5 times 3 = 15 + 1 = 16
- 3. $7 \times 9 = 63$
- 4. $5 \times 8 = 40$
- 5. 6 fives = 30

Exercise 5.1

- 1. Fill in the blanks:
 - a. $\mathbf{0} \times 6394 = 0$
 - c. $119 \times 1 = 119$
 - e. $0 \times 639 = 0$
 - g. $16 \times 27 \times 0 = \mathbf{0}$
 - i. $4914 \times 1 = 4914$

- b. $92 \times 57 = 57 \times 92$
- d. $424 \times 0 = 0$
- f. $1 \times 370 = 370$
- h. $17 \times 15 \times 9 = 15 \times 9 \times 17$
- j. $190 \times 457 = 457 \times 190$
- 2. Write the multiplication fact :
 - a. 6+6+6=18

- \rightarrow 3 \times 6 = 18
- b. 20 + 20 + 20 + 20 + 20 = 100
- $\rightarrow 5 \times 20 = 100$ $\rightarrow 7 \times 5 = 35$
- c. 5+5+5+5+5+5+5=35
- $\rightarrow 9 \times 3 = 27$
- d. 3+3+3+3+3+3+3+3+3=27
 - Mathematics-3 19

3. Find the product:

a. T O (1) 3 5 × 2 7 0

b.

T O 1 2 6 × 3 c.

d.

e.

f.

7 8

g.

h.

i.

j.

T O 5 3 × 1 5 3

k.

T O 2 1 × 4 8 4 1.

m.

n.

0.

9 11 15 10 16 20 19 12

p.

 $\begin{array}{ccc}
T & O \\
4 & & \\
3 & 5 \\
\times & 8 \\
28 & 0
\end{array}$

Mental Maths

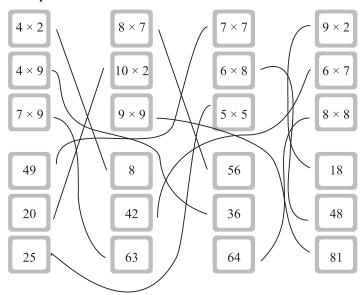
Ans. Monty

Exercise 5.2

1. Complete the grid and find the multiplication facts:

	×	3	8	11	15	10	10	20	18	13
	1	5	8	11	15	10	16	20	18	13
	2	10	16	22	30	20	32	40	36	26
8×3	3 -	15	> 24	33	45	30	498	60	54	39
	4	20	32	44	60	40	64	80	72	52
	5	25	40	55	75	50	80	100	90	65
	6	30	48	66	90	60	96	120	108	78
	7	35	56	77	105	70	112	140	126	91
	8	40	64	88	120	80	128	160	144	104
	9	45	72	99	135	90	144	180	162	117
	10	50	80	110	150	100	160	200	180	130

2. Draw a line to match the numbers to the correct multiplication fact:



Exercise 5.3

1. Multiply the following:

- a. H T O 7 2 8 × 9 2 5 2
- b. H T O 3 4 5 × 6 2 7 0
- H T O
 1 2 0
 × 4
 4 8 0
- 1 3 3 × 3 3 9 9

- e. Th H T O 3 1 0 $\times 2$ 6 2 0
- Th H T O
 2 0 0
 × 5
 1 0 0 0
- Th H T O

 1 0

 2 9 4

 × 2

 5 8 8

Th H T O k. Th H T **O** 1. Th H O j. (1) (2)(2) (1) (2) (1) $\widetilde{3}$

Exercise 5.4

b.

e.

h.

Multiply the following: 1.

- Th H T 3 3 ×
- Th H 2 3 ×
- Th H 1 2 ×

- d. Th H (1) (2)
- Th H T (2) (2)
- Th H T (1) (2)

- g. Th H T (1)(2) ×
- Th H T (1) ×
- Th H O (1)4 6 ×

Multiply the following and write the answer in the box.: 2.

- ×
- X
- Th H T O b. Th H T O C. Th H T o d. Th H 2 2

c.

f.

i.

- Th H T (1) 0 4 X 6 4
 - f. Th H T O (1)(1)(2) 2. 4 X
- g. Th H T h. Th H 2 3
 - × 6 2

Exercise 5.5

1. Multiply the following:

2. Solve in your notebook:

Exercise 5.6

1. Fill in the boxes:

- a. 990 h. 160 c. 30 d. 5400 960 e. f. 4760 h. 700 g. 600 i. 270 į. 5400 k. 800 3900 1000
- m. 6100 n. 5610 o.

Exercise 5.7

1. Each cupboard has = 1055 books Total number of cupboards

 \therefore Total number of book = $1055 \times 6 = 6330$ books

Ans: There are 6330 books in the library.

2. The cost of 1 toy car = ₹48 =₹ (48 × 3) The cost of 3 toy cars = ₹144

Ans: Vicky will pay ₹144.

3. The cost of 1 book = ₹48 The cost of 4 books $= (295 \times 4)$ =**₹**1180.

Ans : Rajat will get ₹1180.

- The weight of 1 book 4. = 1260 gWeight of 7 books $= 1260 \times 7 \text{ g}$ $= 1260 \times 7 \text{ g}$ = 8820 g= 8 kg 820 g.
 - ∴ Total weight of 7 books are 8 kg 820 g.
- 5. 1 news paper has pages = 2845 news paper have $= 28 \times 45$ pages

4 0

4 0

-1 1 2 0

> 1 2 0

A truck has 96 bags of rice 6.

> Each bag of rice has wt. =32 kg \therefore 86 bags of rice have wt = 32 × 86 kg

- = 2756 kg.
- ... The total weight of rice is 3275 kg in the truck.
- 1 Child paid at the entrance 7. =**₹**72

∴ 25 children paid at the entrance =₹(75 × 25) =**₹**1875

∴ ₹1875 were paid at the entrance.

- 8. 1 bouquet has flowers = 43
 - \therefore 8 bouquets have flowers = 43×8

= 344 flowers

- :. 344 flowers use fro making 8 bouquets.
- 9. 1 Section has = 32 students

Number of sections = 5

 \therefore Total students = 32×5

= 160 students.

There are 160 students in class 3.

- **10.** 1 class has been given = 35 balloons
 - \therefore 8 classes have been given = 35 × 8
 - = 280 balloons
 - : 280 balloons used for decoration.
 - 6 Division

Exercise 6.1

- 1. Find out how many children will get the apples.
 - a. Each child gets 12 apples.
 - 24 in equal groups of 12 = 2 groups.
 - $24 \div 12 = 2$; 2 children will get 12 apples each.
 - b. Each child gets 4 apples.
 - 24 in equal groups of 4 = 6 groups
 - $24 \div 4 = 6$; 6 children will get 4 apples each.
 - c. Each child gets 3 apples.
 - 24 in equal groups of 3 = 8 groups
 - $24 \div 3 = 8$; 8 children will get 3 apples each.

When we make equal groups, we know how many are in each group.

- 2. Now, divided the following using the repeated subtraction method.
 - a. $25 \div 5$
- b. 16 ÷ 4

c. $12 \div 4$

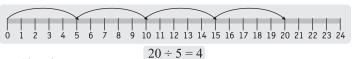
- 25 5 = 20 1 time
- 25 5 = 15 2 times
- 15 5 = 10 3 times
- 10 5 = 5 4 times
- 5-5=0 5 times
- 16 4 = 12 1 time
- 12 4 = 8 2 times 8 4 = 4 3 times
- 8 4 = 4 3 times
- 12-4=8 1 time 8-4=4 2 times 4-4=0 3 times
- 4 4 = 0 4 times

Exercise 6.2

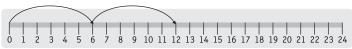
- 1. Now, solve the following on the number line.
 - a. $15 \div 3$



b. $20 \div 5$

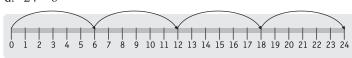


c. $12 \div 6$



 $12 \div 6 = 2$

d. 24 ÷ 6



$$24 \div 6 = 4$$

Exercise 6.3

1. Now, complete the following table. One has been done for you.

Ans.

S.No.	Equation	Dividend	Divisor	Quotient
a	2)1 8	18	2	9
b	3)1 8	18	3	6
С	5) 1 5	15	5	3
d	4)2 0	20	4	5
e	9)1 8	18	9	2

e	7) 2 1	21	7	3
f	5 9)4 5	45	9	5
g	8)4 8	48	8	6

2. Fill in the blanks:

Ans. a.
$$15 \div 1 = 15$$

b.
$$21 \div 1 = 21$$

c.
$$12 \div 12 = 1$$

d.
$$0 \div 7 = \mathbf{0}$$

g. $18 \div 18 = \mathbf{1}$

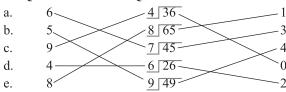
e.
$$7 \div 1 = 7$$
 f.
h. $9 \div 0 =$ meaningless

$$\mathbf{f.} \quad 0 \div 20 = \mathbf{0}$$

$42 \div 42 = 1$

Match the columns. 3.

Ans. **OUOTIENT QUESTION** REMAINDER



Exercise 6.4

1. Write two division facts for each multiplication fact:

a.
$$6 \times 4 = 24$$
 $24 \div 4 = 6$

$$6 \div 6 = 4$$

 $12 \div 4 = 3$

b.
$$3 \times 4 = 12$$

$$12 \div 3 = 4$$

 $15 \div 3 = 5$

$$15 \div 5 = 3$$

c.
$$5 \times 3 = 15$$

d. $5 \times 6 = 30$

$$15 \div 3 = 5$$

 $30 \div 6 = 5$

$$15 \div 5 = 3$$

 $30 \div 5 = 6$

e.
$$4 \times 5 = 20$$

$$30 \div 6 = 5$$

 $20 \div 5 = 4$

$$20 \div 4 = \mathbf{5}$$

f.
$$7 \times 8 = 20$$

$$20 \div 5 = 4$$

 $56 \div 8 = 7$

$$56 \div 7 = 8$$

g.
$$6 \times 3 = 18$$

$$56 \div 8 = 7$$

 $18 \div 3 = 6$

$$18 \div 6 = 3$$

h.
$$5 \times 2 = 10$$

$$18 \div 3 = 6$$

 $10 \div 2 = 5$

$$18 \div 6 = 3$$

 $10 \div 5 = 2$

Hots

Ans. 72 chocolates.

Exercise 6.5

Now, solve the following in your notebook. 1.

b.

a.			9	
	9)	8	1	
	_	8	1	
			0	
:	81	÷ 9	= (g

d.
$$3\sqrt{27} - 27$$

 $27 \div 3 = 9$

$$81 \div 9 = 9$$
 4

$$45 \div 5 = 9$$
 $56 \div 4 = 9$

$$24 \div 8 = 3$$

h.
$$\begin{bmatrix} 5 \\ 7\sqrt{3} & 5 \\ -3 & 5 \\ 0 \end{bmatrix}$$
 i. $\begin{bmatrix} 9 \\ 5\sqrt{3} & 0 \\ -3 & 6 \\ 0 \end{bmatrix}$ j. $\begin{bmatrix} 6 \\ 5\sqrt{3} & 6 \\ -3 & 6 \\ 0 \end{bmatrix}$ $\begin{bmatrix} -3 & 6 \\ 0 \end{bmatrix}$ $\begin{bmatrix} -3 & 6 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 35 \div 7 = 5 \end{bmatrix}$ $\begin{bmatrix} 30 \div 5 = 6 \end{bmatrix}$ $\begin{bmatrix} 36 \div 6 = 6 \end{bmatrix}$

f.
$$\begin{array}{r} 15 \\ 4 \overline{\smash{\big)}\,6} \\ 0 \\ - \\ 4 \\ \hline 2 \\ 0 \\ - \\ 2 \\ 0 \\ \end{array}$$

$$60 \div 4 = 15$$

6.
$$7\sqrt{4}$$
 $\frac{6}{2}$ 1. $\frac{9}{4\sqrt{1}}$ m
$$-42 - 16 0 0$$

$$42 \div 7 = 6 16 \div 4 = 4$$

Exercise 6.6

1. Divide the following.

a.
$$\frac{213}{3)639}$$
 b. $\frac{211}{4)844}$ c. $\frac{111}{5)555}$ d. $\frac{412}{2)824}$

$$-\frac{6\downarrow}{03}$$

$$-\frac{3\downarrow}{9}$$

$$-\frac{4\downarrow}{04}$$

$$-\frac{9}{0}$$

$$-\frac{4}{0}$$

$$-\frac{112}{4)448}$$

$$-\frac{4\downarrow}{04}$$

$$-\frac{4\downarrow}{04}$$

$$-\frac{4\downarrow}{04}$$

$$-\frac{4\downarrow}{04}$$

$$-\frac{4\downarrow}{04}$$

$$-\frac{4\downarrow}{08}$$

$$-\frac{4\downarrow}{08}$$

$$-\frac{9}{00}$$

$$-\frac{9}{00}$$

$$-\frac{9}{00}$$

$$-\frac{9}{00}$$

$$-\frac{9}{00}$$

$$-\frac{9}{0}$$

$$-\frac{9}{00}$$

$$-\frac{3}{00}$$

$$-\frac{3}{0$$

Exercise 6.7

1. Divide the following and find the quotient and remainder.

a.

1 1
5) 5 5
_ 5
0 0
- 5
0
Q = 8
R = 5

b.

6	
4)2 7	
- 2 4	
0 3	
Q = 8	
R = 5	

$$9)\overline{47}$$

$$-45$$

$$2$$

$$Q = 8$$

$$R = 5$$

e.

8_
6) 5 3
- 4 8
5
Q = 8
R = 5

$$7\overline{\smash{\big)}\,6\,9}$$

$$-63$$

$$6$$

$$Q = 9$$

$$R = 6$$

$$8)\overline{58}$$

$$-56$$

$$2$$

$$Q = 7$$

$$R = 2$$

$$\begin{array}{c|cccc}
 & 6 & \\
 & 3 & 1 & 8 \\
 & & -1 & 8 \\
 & & 0 & 6 \\
 & Q = 6 & \\
 & R = 0 & \\
\end{array}$$

Exercise 6.8

1. Now, divide the following:

$$\begin{array}{c}
3)34 \\
-3 \downarrow \\
\hline
04 \\
-3
\end{array}$$

O = 54, R = 0

the following:

b.
$$\frac{11}{5)23}$$
 $-\frac{20}{3}$
 $Q = 4, R = 3$

c. $\frac{111}{3)894}$
 $-\frac{8 \downarrow}{09}$
 $-\frac{8 \downarrow}{09}$
 $-\frac{18}{6}$
 $-\frac{18}{6}$
 $-\frac{11}{6}$
 $-\frac{11}{6}$
 $-\frac{11}{6}$
 $-\frac{11}{6}$

$$\begin{array}{r}
163 \\
3)652 \\
-4 \downarrow \\
25 \\
-24 \\
12 \\
-12 \\
\end{array}$$

2. Divide:

$$3)58$$
 $-3\downarrow$
 -27

Q = 19

R = 1

$$\begin{array}{r}
 10 \\
 \hline
 3)72 \\
 -7 \downarrow \\
 \hline
 02 \\
 -0 \\
 \hline
 2
 \end{array}$$

Q = 10R = 2

$$8)99 - 8 \downarrow 19$$

$$Q = 12$$
$$R = 3$$

Q = 11R = 3

e.
$$\frac{15}{4)61}$$
 $-\frac{4\downarrow}{21}$
 $-\frac{20}{1}$

f.
$$\frac{6}{5)31}$$

 -30
1

g.
$$\frac{5}{9)52}$$
 $-\frac{45}{7}$

h.
$$2\frac{22}{2)44}$$
 $-\frac{4\downarrow}{24}$

d.

h.

$$\frac{1}{Q = 15}$$

$$R = 1$$

$$Q = 6$$
 $Q = 5$ $R = 1$ $R = 7$

$$\frac{-4}{0}$$

$$Q = 22$$

$$R = 0$$

3. Divide and find the quotient and remainder.

a.
$$120$$
3)362
 $-3\downarrow$
06
 $-6\downarrow$

b.
$$\frac{111}{4)445}$$
 $-\frac{4}{04}$
 $-\frac{4}{4}$

c.
$$\frac{173}{2)347}$$
 $-2\downarrow |$
 14
 $-14\downarrow$
 07

$$\begin{array}{c|c}
18 \\
6)108 \\
-6 \downarrow \\
48 \\
-48 \downarrow \\
\hline
0 \\
Q = 18
\end{array}$$

R = 0

$$\frac{-0}{2}$$

$$Q = 120$$

R = 3

$$\frac{-4}{1}$$

$$Q = 111$$

R = 1

$$Q = 173$$

$$R = 1$$

f.
$$\frac{179}{2)358}$$
 $-\frac{2\downarrow}{15}$
 $-\frac{14\downarrow}{18}$
 $-\frac{18}{0}$

$$\begin{array}{r}
 128 \\
 5)640 \\
 -5 \downarrow \\
 \hline
 14 \\
 -10 \downarrow \\
 \hline
 40
 \end{array}$$

$$\begin{array}{c|c}
148 \\
3)445 \\
-3 \downarrow | \\
14 | \\
-12 \downarrow \\
\hline
1 \\
Q = 148 \\
R = 1
\end{array}$$

$$Q = 141$$
$$R = 0$$

$$\frac{0}{Q = 179}$$

$$R = 0$$

$$\frac{0}{Q = 128}$$

$$R = 0$$

Mental Maths

Ans. 19 balloons.

Exercise 6.9

1. Find the quotient and remainder:

a.
$$Q = 61, R = 0$$

d. $Q = 10, R = 0$

c.
$$Q = 6, R = 8$$

g.
$$Q = 61, R = 5$$

h.
$$Q = 20$$
, $R = 5$

f.
$$Q = 95, R = 0$$

Exercise 6.10

- 1. 10 buses carry = 950 people 1 bus carrys $= 950 \div 10$
 - 10)950 = 95 people - 90
 - ∴ 95 people can travel by each bus.

50 -50

30

95

- 9 necklaces have = 270 beads 2.
 - 1 necklace has $= 270 \div 9$ = 30 beads.
 - ... There are 30 beads in each necklace.
- 00

- 3. 8 friends will get stickers = 96
 - 1 friend will get stickers $= 96 \div 8$
 - ∴ 12 stickers will get each one.

- 2 baskets have = 242 apples 4. $= 242 \div 2$ 1 basket has
 - = 121 apples
 - : 121 apples should be packed in each basket.
- 121 10)242

- 5. Tanvi has a 180 cm long rope. She wants to divide it to 9 parts. Length of 1 part = $180 \div 9 = 20$ cm
 - ∴ 20 cm will be the length of each rope.
- 20 9)180
- 00

6. Total days = 847 day
$$\frac{121}{9)847}$$
Days in a week = 7 days
$$\therefore \text{ Number of weeks} = 847 \div 7$$

$$= 121 \text{ weeks}.$$

$$\frac{-7}{14}$$

$$\frac{-14}{07}$$

Multiple Choice Questions

Tick (✓) the correct choice:

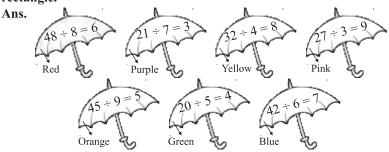
Ans. 1. a. 123

3. b. not possible

4. b. 0

Fun with Maths

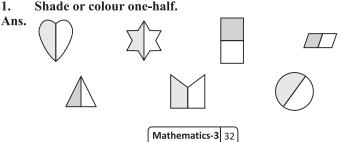
Colour the question umbrella to match the colours of the answer rectangle.



Fraction

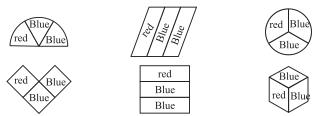
Exercise 7.1

Shade or colour one-half. 1.



2. Colour to show one-third in red and two-thirds in blue.

Ans.

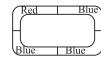


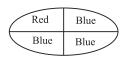
3. Colour to show one-foruth in red and three-fourths in blue.

Ans.

Red	Blue	
Blue	Blue	, ,

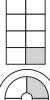






4. Ring the shapes where is $\frac{2}{4}$ green.

Ans.













5. Ring the shapes where $\frac{3}{4}$ is orange.

Ans.



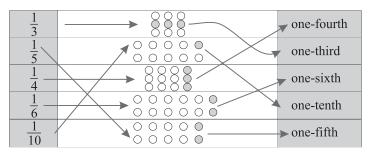












Mental Maths

1. Choose a fraction to show the amount of liquid in each container.

Ans.



 $\frac{3}{4} \quad \frac{1}{2} \quad \frac{2}{3}$



 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$



 $\frac{1}{3}$ $\frac{1}{2}$ $\frac{3}{2}$



 $\frac{1}{4} \quad \frac{1}{3} \quad \frac{2}{3}$

Ans. 1. $\frac{4}{11}$

2. $\frac{7}{1}$

3. $\frac{2}{11}$

4. $\frac{2}{1}$

Exercise 7.2

Hots

1. Circle one-half.

Ans. a.







Exercise 7.2

1. Circle one-third.

Ans. a.



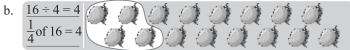
b.
$$\frac{12 \div 3 = 4}{\frac{1}{3} \text{ of } 12 = 4}$$

c.
$$\frac{18 \div 3 = 6}{\frac{1}{3} \text{ of } 18 = 6}$$

3. Circle one-fourth.

Ans. a.







Exercise 7.3

1. First write the fraction for shaded part then find the numerator and denominator.

Ans. a.



$$Numerator = 1 \\
Denominator = 2$$

b.

Numerator =
$$\frac{3}{7}$$

Denominator = $\frac{7}{7}$

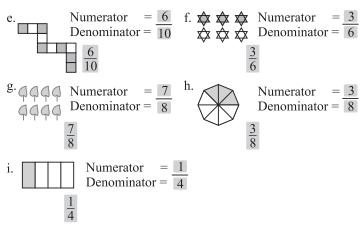
c. ***

$$Numerator = 5 \\
Denominator = 8$$



$$Numerator = 3
Denominator = 7$$

 $\frac{3}{4}$



2. Write the fraction with.

- a. Numerator 2, Denominator 5
- b. Numerator 4, Denominator 10 $\frac{4}{15}$
- c. Numerator 3, Denominator 7 $\frac{3}{7}$
- d. Numerator 1, Denominator 6 $\frac{1}{6}$
- e. Numerator 4, Denominator 8 $\frac{4}{8}$

3. Write the fraction for the following word problems.

a. $\frac{11}{15}$ b. $\frac{15}{24}$ c. $\frac{3}{5}$ d. $\frac{4}{12}$ e. $\frac{5}{11}$ f. $\frac{1}{5}$ g. 3 h. $\frac{5}{2}$

Life skills

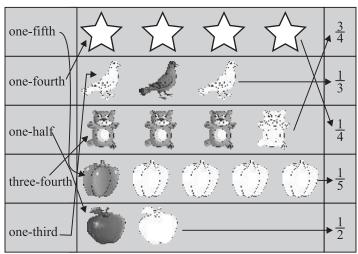
First colour the flag with 3 different colours (e.g. green orange and blue) and then answer the following questions.

What is the fraction of:

Ans. 1. $\frac{1}{3}$ 2. $\frac{1}{3}$ 3. $\frac{1}{3}$ 4. $\frac{2}{3}$ 5. $\frac{2}{3}$

Fun with Maths

Match the following:



Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. a. one-third

2. c. three-fourths 3. c. 7



Geometrical shapes

Look Back

Now, write the name of the object having the shape as: 1.

Ans.	Cube	Cuboid	Cylinder	Cone	Sphere
	b., f, i	h	c, 1	a, g, j	d

2. Look at the following picture and write the number of:

a. 2

b. 8

c. 2

d. 4

Exercise 7.1

- Name the line segments in each of these figures. 1.
 - a. Line segment = PQ, QR, RS, SP
 - b. Line segment = AB, BC, CD, DE, EA

2.	On	ly one line so	egn A	nent can draw	pa	ssing thoug	h the	se points.
3.	Fil	l in the blan				Б		
		one		-	c.	definite	d.	position
		₩N						r
	٠.	1721 (Exercise	7.1			
1.	Me	easure each	of t	he following				
		do it yourse		3		O		
2.		the following						
Ans.		do these you					. C	
		do these you			٠.D			
	c.			s segment is A gment is CD	ΑB			
		Point of inte				Α	0	—В
		T OHIL OF HILL	150	etion is o		11		В
				Exercise	7.1		D	
1.	Fil	l in the blan	ks		•••			
Ans.	a.	4, 4	b.	equal	c.	3, 3	d.	no
	e.	equal		-				
2.				hat you will g				
•		_		Circle				Square
3.	Ye	S	4.	Yes	5.	Yes	6.	4
7. 8.	3 M4	ageura tha la	nσ	ths of sides o	f fo	llowing fig	IIPAG	•
		it yourself.	ng	ins of sides of	1 10	mowing ng	uics	•
		10 9 0 000 0000		Mental M	ath	ıs		
Cont	the	number of	rec	tangles in ea	ch	case.		
Ans.	a.	3	b.	16	c.	12		
				Exercise				
1.	Tic	ck (🗸) the co	rre	ect word in e	ach	sentence.		
	a.	The waterm	elo	n has a (plane	e/cu	ıryed) surfa	ce.	
	b.	The football	ha	s a (plane/cur	ye	d) surface.		
				r teacher's ta	~		e/cur	ved) surface.
								,
	d. The ball of wool has a (plane/curyed) surface.							

5.	Match these on the dotte		their appro	priate solid-	shape. Draw
	(/) the correc 1. b. four	et choice: 2. a. six	Choice Question 3. b. to with Maths		a. no
	at the picture	es given belov		e shape in the	e table.
Ans.	Objects	Rectangle	Circle	Square	Triangle
	CD		✓		
	Book	✓			
	Ball		✓		

Mathematics-3 39

c. No d. Yes

d. True

c. True

g. True Look at the plane and solid shapes. Colour only the solid

2.

3.

4.

a. Yes

e. Yes

a. True e. False

Strike off the wrong answer.

Answer True or False:

shapes in green.

b. No

f. No

b. False

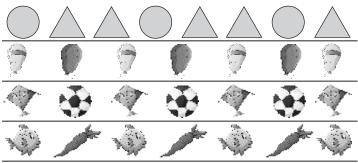
f. True

Mirror			1	
Clock		1		
Table	1			

9 Patterns and Symmetry

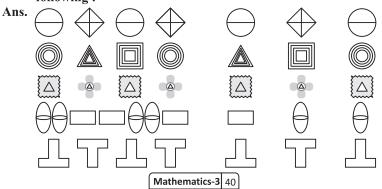
Look Back

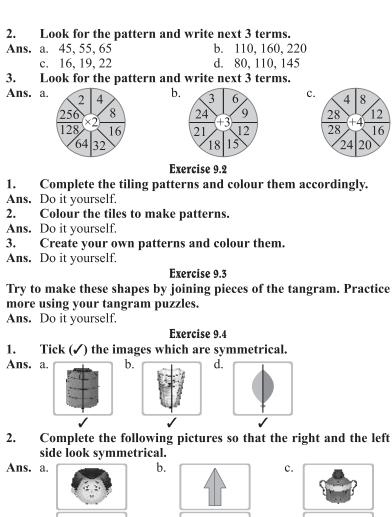
Try to draw the next shape/figure in the following patterns:

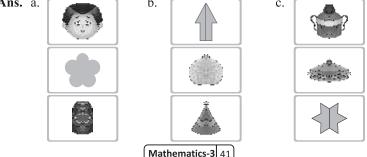


Exercise 9.1

1. Look for the pattern and complete the series for each of the following:







2. Title the house shown below using tiles of different colours and shapes. Also circle the given shape that can be used to tile the house.

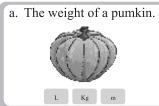
Ans. Do it yourself.

10 Measurement

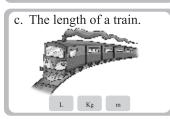
Look Back

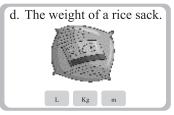
 $Try\ to\ draw\ the\ next\ shape/figure\ in\ the\ following\ patterns$:

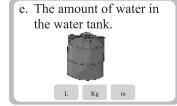














Exercise 10.1

- 1. Change into cm:
 - a. 12 m = 1200 cm
 - c. 6 m 18 cm = 618 cm
 - e. 17 m 28 cm = 1728 cm

- b. 7 m = 700 cm
- d. 25 m = 2500 cm
- f. 42 m = 4200 cm

2. Change into m:

- 7 km = 7000 m
- c. 3 km = 3000 m
- 6 km 218 m = 6218 m
- 3. Change into m and cm:
 - a. 893 cm = 8 m 93 cm
 - $= 7 \, \text{m} \cdot 36 \, \text{cm}$ b. 736 cm
 - c. 438 cm = 4 m 38 cm
 - d. 1829 cm = 18 m 29 cm
 - e. 6128 cm = 61 m 28 cm
 - 3856 cm = 38 m 56 cm

4. Change into km and m:

- 2815 m a. = 2 km 815 m
 - = 8 km 348 mb. 8345 m
 - c. 7603 m = 7 km 603 m
 - d. 1230 m = 18 km 29 m
 - e. 9987 m = 1 km 230 m
 - 6300 m = 6 km 300 m

Exercise 10.2

cm

1. Add:

Ans.	a.	m	cm	b.
		4 7	5 2	
		122	17	

69

km

64

+26570

90 820

m

250

	1	
5 2	6 8	6 0
1 7	+ 55	3 2
6 9	1 2 3	9 2

m

cm

b. 5 km = 5000 m

f.

d. 4 km 15 m = 4015 m

9 km = 9000 m

$$\begin{array}{rrrr} +26 & 39 \\ \hline 60 & 32 \end{array}$$

2. Add:

m	cm
4 7	5 2
+22	1 7
6 9	6 9

m	cm
1 4 0	2 3
+ 79	5 6
2 1 9	7 9

c. 320 m 30 cm + 140 m 4 cm + 160 m 8 cm= 219 m 68 cm

m	cm
3 2 0	3 0
1 4 0	0 4
+1 6 0	0.8
6 2 0	4 2

e. 38 m 656 m + 79 k m484 m = 118 m 140 cm

km m								
1111								
	3	8	6	5	6			
+	7	9	4	9	4			
1	1	8	8	2	0			

d. 45 km 709 m + 78 km125 m + 142 km 42 m= 265 km 876 m.

km	m
	1
4 5	709
7 8	1 2 5
+142	0 4 2
265	8 7 6

f. 34 km 684 m + 189 km590 m = 224 km 274 m

		\mathbf{k}	m	1	n		
11111							
		3	4	6	8	4	
+	1	8	9	5	9	0	
	2	2	4	2	7	4	

3. **Subtract:**

Ans. a.

m	cm
3 8	3 8
-16	2 0
2 2	1 8

- b. I
 - m cm 8 4 72 - 5 2 5 1 3 2 3 1
- m cm (4)(15) (13)(18)5 6 4 8 2 7 69 2 8 79
- m cm $\widetilde{24}$ 0° 2 +1568 0.8 3 4

- km m 618 21410 78 350 -5927519 075
- km m 93 300 +62100 3 1 200
- km m h. 6 12 (1) 14 16 72 256 +66 067 0.6 189
- km m 1 9 9 15 200500 +100800 099700

Subtract: 4.

= 15 m 81 c m

- km m 2 (12) (9) (15) 3 3 5 0 -17 69 1 5 8 1
- **Ans.** a. 33 m 50 cm 17 m 69 cm b. 45 m 79 cm 28 m 98 cm= 16 m 81 cm

km m 3 (14) (17) 45 79 28 98 1681 c. 352 m 61 cm – 27 km 73 cm =

	m	_	CI	
3	4	(11) 2	15	(1) 1
_	2	7	7	3
3	2	4	8	8

e. 175 m 100 cm – 27 km 135 m = 147 km 965 m

	kr			n	1
	6	(14)	10	9	(1)
1	7	5	1	0	0
_	2	7	1	3	5
1	4	7	9	6	5

66 m = 325 km 36 m

	km	m
	410	915
3	5 0	1 0 5
_	2 7	6 6
3	2 3	3 9

578 m = 160 km 646 m

		kı	m		m	
		4	10		9	(15)
	3	0	0	5	8	5
-	-1	3	9	3	6	5
	1	6	0	9	5	0

d. 262 m 28 cm – 217 m 67 cm = 44 m 61 cm

	m	1	CI	n
	(5)	(1)	12	
2	6	2	2	8
-2	1	7	6	7
	4	4	6	1

f. 80 m 532 cm – 17 km 636 m = 62 km 896 m

	k	m		m	
(7		14	\sim	_
	8	0	5	3	2
	1	7	6	3	6
	4	4	8	9	6

g. 350 km 105 m – 27 km h. 600 km 399 m – 99 km m 476 = 540 km 917 m

			m		m	
(3			13	8	(15
	6	0	0	3	9	5
-		5	9	4	7	8
	5	4	0	9	1	7

i. 300 km 218 m - 139 km j. 50 km 40 m - 20 km 460 m= 29 km 944 m

km	m
49	1310
5 0	4 0 4
- 20	4 6 0
2 9	944

Exercise 10.3

1. Change into grams.

a.
$$6 \text{ kg} = 6000 \text{ g}$$

b.
$$18 \text{ kg} = 18000 \text{ g}$$

c.
$$8 \text{ kg } 295 \text{ g} = 8295 \text{ g}$$

d.
$$3 \text{ kg } 25 \text{ g} = 3025 \text{ g}$$

Change into kilograms and grams: 2.

a.
$$1006 g = 1 kg 6 g$$

b.
$$4030 g = 4 kg 30 g$$

c.
$$2546 g = 2 kg 546 g$$

d.
$$8490 g = 8 kg 490 g$$

e.
$$5042 \text{ g} = 5 \text{ kg } 42 \text{ g}$$

f.
$$7676 g = 7 kg 676 g$$

Exercise 10.4

1. Add:

$$\begin{array}{cccc}
4 & 2 & 9 & 8 \\
7 & 2 & 4 & 4 & 3
\end{array}$$

$$+ 1 2 3 0$$
 $1 1 7 1 0 1$

c.

g.

g

92 385

$$+\ 3\ 1\ 0\ 1$$
 $4\ 6\ 0\ 0\ 6$

2. Add:

a. 84 kg 585 g + 26 kg 365 g b. 34 kg 994 g + 94 kg 66 g = 110 l 950 g

588 g = 317 l 277 g

3 1 7 2 7 7

	_				
	k	g		g	
		(1)	(1)	1)
	3	4	9	9	4
+	9	4	0	6	6
1	2	9	0	6	0

- 1			
kş	3	g	
	(2)	2)(1)
6.9	9 7	2 9	3
2 9	9 .	3 6	8
+28	3 (5 4	5
1 1	7 3	3 0	6

			g		g	
	(9		9	
	2	2	4	3	6	8
+	3	3	0	6	4	5
	6	1	4	0	7	3

g.
$$5 \text{ kg } 263 \text{ g} + 75 \text{ kg } 7 \text{ g} + 39 \text{ kg } 730 \text{ g} = 120 \text{ kg}$$

kg	g
11	2 9 3
7 5	007
+ 39	7 3 0
1 2 0	0 0 0

(k	g	(2)	g)
	4	3	1	6	7
	2	7	4	5	9
+	1	0	5	0	0
	8	1	1	3	1

3. Subtract:

c.
$$\begin{array}{c} \textbf{kg} & \textbf{g} \\ 410 & 910 \\ 51 & 006 \\ -46 & 724 \\ 4282 \end{array} \quad \begin{array}{c} \textbf{d.} & \textbf{kg} & \textbf{g} \\ 213 & 91414 \\ 34 & 054 \\ -17 & 196 \\ 16 & 858 \end{array}$$

4. **Subtract:**

a.
$$243 \text{ kg } 108 \text{ g} - 18 \text{ kg}$$

 $799\text{g} = 224 \text{ kg } 309 \text{ g}$

c.
$$46 \text{ kg } 74 \text{ g} - 27 \text{ kg}$$

 $396\text{g} = 18 \text{ kg } 678 \text{ g}$

d.
$$34 \text{ kg } 500 \text{ g} - 76 \text{ kg } 72 \text{ g}$$

= $17 \text{ kg } 771 \text{ g}$

	kg 610 ナナ	g 10918 223
_	4 9	985
	2 1	2 3 8

= 117 kg 879 g

			g		g	
		(5)		9		17
	2	6	0	0	0	7
_	1	4	2	1	2	8
	1	1	7	8	7	9

779 g = 212 kg 367 g

			g	10	(16)	
	3			1		
-	- 1	4	9	7	7	9
	2	1	2	3	6	7

e. 260 kg 7 g – 142 kg f. 464 kg 362 g – 427 kg 498 g = 36 kg 864 g

	(5)		12		
_		7	<i>3</i>	9	
	3	6	8	6	4

g. 362 kg 146 g – 149 kg h. 756 kg 214 g – 327 kg 986 g = 428 kg 228 g

		k	g		g	
				12	Ī5	12
	7	5	6	2	1	4
-	3	2	7	9	8	6
	4	2	8	2	2	8

Exercise 10.5

1. Change into ml:

a. 91 **6000** ml c. 81750 ml **8295** ml

e. 41404 m*l* **4404** ml

g. 41750 ml =4750 ml

Change into I and ml:

a. 1005 ml = 1 l 5 mlc. 4338 ml = 4 l 338 ml

e. 9356 ml = 9 l 356 mlg. 6556 ml = 6 l 556 ml b. 7 *l* = **18000** ml

d. 61265 ml = 6265 mlf. 5l175m*l* = **5175** ml

31330ml h. 3330 ml

b. 7878 ml = 7 *l* 878 m*l*

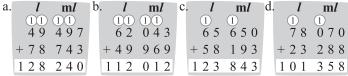
d. $3477 \, \text{ml} =$ 3 l 477 ml f. 2222 ml = 2 l 222 ml

h. 3540 ml =3 l 540 ml

Exercise 10.6

1. Add:

2.



2. Add:

= 65 l 638 ml

l	m <i>l</i>			
1	1			
3 7	3 4 8			
+ 2 8	290			
6.5	6 3 8			

c. 729 l 678 ml + 137l $298 \text{ m}l = 65 \ l \ 638 \ \text{m}l$

	l			1	mi	!
	1			1	1)
	7	2	9	6	7	8
+	1	3	7	2	9	8
	8	6	6	9	7	6

e. 65 l 465 ml + 59l= 124 l 743 ml

	l	m <i>l</i>		
	1	11		
	6 5	465		
+	5 9	2 7 8		
	1 2 4	7 4 3		

g. 413 *l* 866 m*l* + 438*l* $176 \text{ m}l = 852 \ l \ 277 \text{ m}l$

		k	g		g	
(1	1)	1	1)
	4	1	3	8	6	6
	4	3	8	1	7	6
+		0		2	3	5
	8	5	2	2	7	7

a. 37 l 348 ml + 28l 290 ml b. 253 l 597 ml + 357 l 684 ml= 611 l 28 l ml

			l	I	mi	!
		\sim	1	1)
	2	5	3	6	8	4
+	3	5	7	9	6	9
	6	1	1	2	8	1

d. 50 *l* 594 m*l* + 246 *l* 47 m*l* = 296 l 641 ml

		l		m <i>l</i>			
		1)	11			
		5	0	5	9	4	
+	2	4	6	0	4	7	
	2	9	6	6	4	1	

f. 117 l 998 ml + 66 l 47 ml + $6l = 296 \ l \ 641 \ ml$

		l		m <i>l</i>			
		1)	11			
		5	0	5	9	4	
+	2	4	6	0	4	7	
	2	9	6	6	4	1	

h. 172 l 949 ml + 248 l 90 ml= 421 l 039 ml

> 1 ml (1)(1)(1) 172 949 +248 090 421 039

3. **Subtract:**

l m*l* d. *l* m*l* b. l ml c. l m*l* 6(11) (12)(7)(10) (5)(18) (2)(16)(14) (5(9) (13(12(1) (5)(13) (11)(8)(13) 72 288 68 374 68 431 64 193 -18756-29296-20574-297855 3 5 2 4 20 857 39 078 3 4 4 0 8

e.	l	m <i>l</i>	f.	l	m <i>l</i>	g	l	m <i>l</i>	h.	l	m <i>l</i>
		12(7(10)		518	2 16 14	ľ	59	13121		513	11813
	5-5-2	046		843	088		60	434		64	193
	-2 1 9	3 7 8	-	628	297		- 39	5 7 4		- 29	7 8 5
	3 3 2	6 6 8		2 1 4	791		2 0	8 5 7		3 4	4 0 8

4. Subtract:

- a. 87 *l* 106 ml 49 *l* 937 ml = 37 *l* 169 ml
 - | ml | 76 096 | 87 486 | -49 937 | 37 169
- c. 46 l 34 ml 28 l 798 ml= 17 l 236 ml
 - l ml 315 10916 46 834 -28 798 17 236
- e. 328 l 5 ml 16 l 798 ml= 311 l 207 ml
- g. 456 l 3 ml 139 l 198 ml= 316 l 805 ml

- b. 87 *l* 106 m*l* 49 *l* 937 m*l* = 114 *l* 246 m*l*
 - l ml 812 11/12/12 +93 2 3 2 -78 986 37 246
- d. 34 l 6 ml 18 l 757 ml= 15 l 249 ml
 - l ml 213 996 34 400 -18 757 15 249
- f. 374 l 220 ml 138 l 798 ml= 235 l 422 ml
 - l ml 631110 374220 -138798 235422
- h. 276 *l* 341 m*l* 58 *l* 798 m*l* = 217 *l* 543 m*l*
 - l ml 65231 276347 - 58798 217543

Exercise 10.7

1. Petrol was sold to Ist car owner = 20 l 540 ml
Petrol was sold to IInd car owner = 25l 330 ml
Petrol was sold to IIIrd car owner = +30 l 050 ml
total quantity of petrol was sold = 75l 920 ml

l	ml
2 0	5 4 0
2 5	3 3 0
+30	050
7 5	920

- 2. Vishakha jogs = 20 l 540 ml Jatin jogs = 7 km 50 m 7 km 50 m > 5 km 650
 - ∴ Jatin jogs more than Vishakha. Jatin jogs more = 7 km 50 m − 5 km 650 m = 1 km 400 m.

Jatin jogs 1 km 400 m more than Vishakha.

Weight of potatoes = 5 kg 500 g.

Weight of of tomatoes = 1 kg 225 g

Total weight = 5 kg 500 g

+ 1 kg 225 g= 6 kg 725 g.

- So, Mr Kashyap bought 6 kg 725 g vegetables.
- 4. Loddooos were bought = 2 kg 500 g Ladoos were distributed = 1 kg 200 g Ladoos has felt with sagar = 2 kg 500 g

-1 kg 200 g= 1 kg 300 g

5. Weight of Ist child = 21 kg 250 g Weight of IInd child = 32 kg 059 g Total weight of both children = 21 kg 250 g + 32 kg 0 59 g

53 kg 309 g

So, the total weight of both children is 53 kg 309 g 6. Kavita got petrol = 24 l 500 ml

She used petrol = 15 1 780 ml So, 8 1 72 ml petrol is left in Kavita's car.

7. Lenght of Ist Ribbon = 6 m 75 cm Lenght of IInd ribbon = + 4 m 25 cm Total length of both ribbons = 11 m 00 cm So, 11 m is the total length of both ribbons. **km m**6 0
7 0 5 0
- 5 6 5 0
1 4 0 0

kg g2 500
-1 200
1 300

kg g 1 2 1 2 5 0 + 3 2 0 5 9 5 3 3 0 9

kg	g			
2 1	$\begin{array}{c} 1 \\ 2 5 0 \end{array}$			
+32	0 5 9			
5 3	3 0 9			

m cm
1 1
6 7 5
+ 4 2 5
1 1 0 0

- 8. Lenght of Ist ribbon = 6 m 75 cm Lenght of IInd ribbon = + 4 m 25 cm Total length of both ribbons = 11m 00 cm
- So, 11 m is the total length of both ribbons.

 9. Total length of thread = 500 m
- Used thread = 242 m 5 cm
 - Thread is left with tailor = 500 m 242 m 5 cm= 257 m 95 cm

So, 257 m 95 cm thread is left with tailor.

10. Weight of sold apples to one customer
Weight of sold apples to another customer
Total weight of sold apples

7 kg 205 g= 12 kg 830 g

= + 5 kg 625 g

The fruit seller had apples = 50 kg So, the weight of apples are left

with fruit seller = 50 kg - 12 kg 830 g= 37 kg 170 g

So, 37 kg 170 g apples are left with fruit seller.

kg g5 625 - 7 205 12 830

m/

2 4 6

812 (1)(12(12)

793 232

- 78 986

3 7

5 kg 625 g

7 kg 205 g

Mental Maths

Tick (\checkmark) the correct box :

		Less than 1 km	Equal to 1 km	More than 1 km
1.	250 m + 850 m			✓
2.	625 m + 275 m	1		
3.	600 m + 500 m - 250 m	1		
4.	300 m – 250 m + 450 m	1		
5.	450 m + 50 m + 500 m		1	

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. b. 1000 m 2. b. 1 m 3. c. 10 cm 4. b. 100

Hots

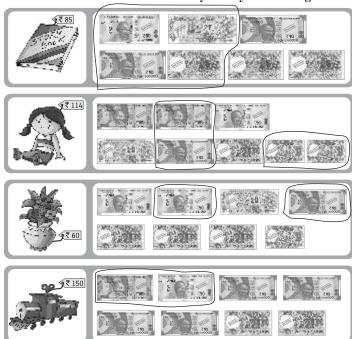
- **Ans.** 1. Because light things are not weighted in kilograms.
 - 2. We require a smaller unit to weigh light things.
 - 3. (a) 500 grams (b) 250 grams
 - 4. Bag of Rice, bag of Sugar, Bag of Wheat

11 Money

Look Back

1. Circle the correct amount of money to buy these things.

Ans.



Exercise 11.1

- 1. Write the given amount in short form.
- **Ans.** a. ₹39.30

d. ₹535

- b. ₹45.65 e. ₹0.97
- c. ₹182.10f. ₹3.05
- 2. Write the given amount in long from (in words).
- Ans. a. Forty-five rupees and five paise
 - b. Eighteen rupees and thirty paise
 - c. Fifty-three rupees and seventy eight paise
 - d. Ninety three rupees and eighty five paise

- e. One hundred forty nine rupees and eight paise
- f. Six hundred seventy five rupees and twelve paise

Life Skills

Do it yourself.

Exercise 11.2

- 1. Change paise to rupees.
 - a. ₹4.28
- b. ₹1.20
- c. ₹3.20
- d. ₹3.20
- 2. Change rupees and paise to paise.
 - a. 875 paise
- b. 450 paise
- c. 575 paise
 - d. 828 paise

- e. 750 paise f. 650 paise Put >, < or = sign in the box.
- a. =

3.

- b. >
- c. >
- d.
- 4. Tick (✓) the correct statements. Correct the incorrect statements.
 - c. 🗸
- 5. Let us go shopping!

Sonam buys	John buys	Rohit buys
18.00	135.00	90.00
5.00	10.00	140.00
10.00	140.00	210.00
33.00	285.00	₹ 336

Project

Ans. Do it yourself.

Exercise 11.3

- 1. Add the following:
 - a. ₹ **p**1 1 . 4 3
 + 2 0 . 3 2
 3 1 . 7 5

Ans:₹31.75

1 4 7 . 7 5 + 3 4 . 0 0 8 1 . 7 5

₹

8 1 . / 5 Ans : ₹76.70

 ₹
 p

 6 5 . 2 0

 + 1 1 . 5 0

 7 6 . 7 0

 d.
 ₹
 p

 2 5 . 0 0
 + 4 3 . 5 0

 6 8 . 5 0

h.

Ans:₹68.50

e. **₹ p** f

Ans: ₹32.50

₹ p
2 7 . 2 5
+1 4 . 1 0
4 1 . 3 5

Ans: ₹41.35

g. ₹ p 1 5 . 2 5 + 1 3 . 2 5 2 8 . 5 0

Ans: ₹28.90

₹ **p**2 3 . 7 5
+ 4 3 . 0 0
6 6 . 7 5

Ans: ₹66.75

2. Add in the second way:

a. Add ₹ 26.45, ₹ 110.75



Ans: ₹137.20

c. Ad ₹ 117.50, ₹ 205.10, ₹ 175.70

	ŧ	₹		p		
	1	1)	1		
1	1	7		5	0	
2	0	5		1	0	
+1	7			7	0	
4	9	8		3	0	

Ans: ₹498.30

b. Add ₹ 36.45, ₹ 428.75



Ans: ₹465.20

d. Add ₹ 85.50, ₹ 95.75, ₹ 175.85



Ans:₹357.10

3. Add the following:

- a. ₹ p
 2 2 . 5 0
 -1 0 . 0 0
 1 2 . 5 0
- b. **₹ p**①
 8 9 . 2 5
 4 5 . 5 0
 4 3 . 7 5
- - ₹ **p**(4) (10)
 3 5 . 0 0
 -1 2 . 5 0
 2 2 . 5 0

- a. ₹ **p**6 2 . 5 0
 1 0 . 0 0
 5 2 . 5 0
- ₹ p d. ₹ p
 5 00 7 00
 5 6 . \$\phi\$ 0 7 8 . \$\phi\$ 0
 -4 5 . 5 0
 1 0 . 5 0 3 2 . 5 0

4. Subtract in second way:

a. Subtract ₹ 46.65 from ₹ 120.00

		₹	F			p
(0	11)	1)	1	10
	1	2	0		0	0
_		4	6		6	5
		7	3		3	5

Ans: ₹73.35

b. Subtract ₹ 374.20 from ₹ 500.05

 ₹
 p

 (0) (1) (1) (1) (0)

 5 0 0 . 0 5

 -3 7 4 . 2 0

 1 2 5 . 8 5

Ans: ₹125.85

c. Subtract ₹ 52.83 from ₹ 100.00



Ans: ₹48.17

d. Subtract ₹ 183.75 from ₹ 220.65

Ans: ₹36.90

f.

Exercise 11.4

b.

e.

h.

Multiply the following: 1.

d.

17.38 × 8 ₹ 139.04

g. 45.32 × 5 ₹ 2 2 6 . 6 0 ₹

35.23 × 6 ₹ 2 1 1 . 3 8

24.18 × 9 ₹ 2 1 7 . 6 2

> ₹ 12.25 × 5

₹ 61.25

19.15 \times 4 ₹ 76.60

49.12

₹ 2 4 5 . 6 0

₹

 \times 5

Divide the following: 2.

a.
$$₹ 95 ÷ 5 = ₹19.00$$

b. ₹320 ÷ 4 = ₹80.00

c. ₹ 102 ÷ 6 = ₹17.00
6)₹17.00
6)₹102.00

$$\frac{-6}{42}$$

$$\frac{42}{00}$$

$$\frac{-0}{00}$$

e. ₹ 45 ÷ 3 = ₹15.00
4)₹45.00

$$\frac{-3}{15}$$

 $\frac{15}{00}$
 $\frac{-0}{00}$

Exercise 11.5

- 1. The cost of 1 chocolate = ₹14.50The cost of 2 chocolate = $₹14.50 \times 2$ = ₹29.00
 - ∴ Rajni will pay ₹29.00 form them.
- 2. The cost of a glue stick = ₹6.00
 The cost of picture books = + ₹16.90
 Total amount that Gautami spent = ₹22.00
 So, Manjeet spent ₹22.90 in all.
- 3. The cost of Hindi story book = ₹43.50
 The cost of English story book = + ₹36.90
 Total amount that Gautami spent = ₹80.00
- 4. The cost of 1 toy = ₹112.50 ∴ The cost of 4 such toys = ₹112.50 × 4 = ₹450.00
 - ∴ Sunanda will pay ₹450 for them.

5. The cost of 1 biscuit packet = 7112.50

∴ The cost of 8 biscuit packets = $₹112.50 \times 4$

₹450.00

6. The cost of 8 kg guavas = 85.20

The cost of 1 kg guavas = $\mathbf{\xi}85.20 \div 8$

= **₹**10.65

So, the cost of 1 kg guavas is ₹10.65.

7. $\mathbf{\xi}$ The cost of 1 banana = $\mathbf{\xi}$ 3.50

₹ The cost of 12 bananas = ₹ 3.50×12

= ₹42.00

∴ The cost of 1 apple = ₹8.25

= ₹66.00

= 66 > 42 = ₹66.00

:. Ramu paid more for apples and bananas.

Difference in the cost of apples and bananas

= ₹66.00 – ₹42.00

= ₹24.00

Exercise 11.6

1. Guddy went to a toy shop. She bought 2 cars for `15.00 each, 3 notebooks for `10.50 each, 1 doll for `55.00, 5balls for `30.00 each. Prepare a bill for Guddy's items.

Ans. Guddy's Bill

S.No.	Item	Quantity	Rate per item	₹	P
1.	Car	2	₹15.00	30	00
2.	Note	3	₹10.50	31	50
	book				
3.	Doll	1	₹55.00	55	00
4.	Balls	5	₹30.00	150	00
			Total=	266	50

2. Seema's Bill

	Coffee Sl	Bill No. 214		
				Date:
S.	Items	Quan-	Price	Amount
No.		tity	(in ₹)	₹p
1.	Hot coffee	1	12.50	12.50
2.	Club sandwich	2	30.25	60.50
3.	French fries	1	25.00	25.00
4.	Cold coffee	1	18.50	18.50
5.	Coleslaw sandwich	3	32.25	96.75
			Total	213.25

3. a. Sanya's Bill

S.No.	Item	Quantity	Rate per item	₹	P
1.	Note book	3	₹18.65	55	95
2.	Pencil	2	₹35.50	71	00
3.	Colour box	1	₹52.25	52	25
			Total=	179	20

b. Shivam's Bill

S.No.	Item	Quantity	Rate per item	₹	P
1.	Pencil	6	₹5.00	30	00
2.	Eraser	4	₹3.00	12	00
3.	Sharp ener	4	₹8.00	32	00
4.	Fevicol Stick	1	₹12.50	12	50
			Total =	86	50

He will get back ₹13.50

Hots

Ans. The shopkeeper should return to Deepak ₹33.60

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. c. ₹16.05 2. c. ₹2.50 3. b. ₹6.00 4. a. ₹30 5. c. ₹135 6. c. ₹2450 7. c. 20 week 8. a. 45p

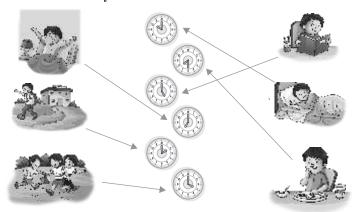
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Time and Calendar

Look Back

1. Match the activity with the time:

Ans.



2. Fill in the blanks and enjoy this poem.

Ans. M for Monday, turn around,

T for **Tuesday**, touch the ground,

W for **Wednesday**, jump so high,

T for Thursday, touch the sky,

F for **Friday**, say hooray!

S for Saturday, time to play,

S for **Sunday**, clap your hands, It's time to start all over again!

Exercise 12.1

- Draw hands on the clocks to show the time written below. 1.
- Ans. a.



h.



c.



d.



2. Look at the following table. All the four boxes in a row convey the same meaning. Now, complete the following table buy filling in the blank boxes.



10:45

Quarter to 11

15 minutes to 11



3:45

Quarter to 4

15 minutes to 11



3:15

Quarter past 3

15 minutes past 3

Exercise 12.2

- 1. Look of the clocks shown here and write the time in two ways. One has been done for you.
- Ans.
- a. 10:10, 10 minutes past 10 c. 12:50, 100 minutes to 1
 - 12:35, 25 minutes to 1
 - 7:40, 20 minutes to 8
- b. 11:30, Half past 11
- d. 2:20, 200 minutes past 2
- f. 6:55, 5 minute to 7
- h. 6:50, 10 minutes to 7
- Draw the hour hand and the minute hand to show the given 2. time in the clocks.

Ans. a.









9:20

10 minutes to 7

25 minutes past 2

11:05

3. Match the columns.



Exercise 12.3

1. Rewrite the time using am or pm for the following:

		_		L .		0
a.	8:00 am	b.	10:15 p	om	c.	12:40 pm

2. Write the time

a.	Time now	Time after 3 hours
	1:00 pm	4:00 pm
	9:30 am	12:30 pm
	7:50 pm	10:50 pm
	11:25 pm	2:25 am

b.	Time now	Time 2 hours before
	1:00 pm	4:00 pm
	9:30	12:30 pm
	7:50 pm	10:50 pm
	11:25 pm	2:25 am

3. Tick (\checkmark) the correct choice for the following activities:

- a. I go to school at 7 am/pm
- b. I go to play at 4 am/pm
- c. I take dinner at 8 am/pm,
- d. I go to bed at 10 am/pm

Exercise 12.4

1. Convert into minutes:

Ans. a. 1 hour = 60 minutes

$$\therefore$$
 12 hour = 60 × 12
b. 1 hour = 60 minutes
 \therefore 13 hours = 60 × 13

c.
$$1 \text{ hour} = 60 \text{ minutes}$$

$$\therefore$$
 8 hour = 60×8

= 480 minutes

e.
$$1 \text{ hour} = 60 \text{ minutes}$$

$$\therefore$$
 17 hour = 60×17

$$g \cdot 5\frac{1}{2} = \frac{11}{2}$$

$$\therefore$$
 1 hour = 60 minutes

$$\therefore 5\frac{1}{2} \text{ hours} = 60 \times 5\frac{1}{2} = \frac{30}{60} \times \frac{11}{2}$$

= 330 minutes

d. 1 hour
$$= 60$$
 minutes

$$\therefore$$
 3 hours = 60×13

= 780 minutes

f. 1 hour =
$$60 \text{ minutes}$$

 $\therefore 6 \text{ hours} = 60 \times 6$

$$s = 60 \times 6$$

$$\therefore$$
 7 hours = 60×7

$$=420+15$$

i.
$$\therefore$$
 1 hour = 60 minutes

$$\therefore$$
 20 hours = 60×20

= 1200 minutes

$$= 1200 + 25$$

= 1225 minutes

Exercise 12.4

2. Convert into hours and minutes: Ans. a. 60 minutes = 1 hours

$$\therefore$$
 120 minutes = 120 ÷ 60 hours = 2 hours

$$60)120$$
 -120

$$\therefore$$
 240 minutes = 240 \div 60 = 4 hours = 4 hours

$$\begin{array}{r}
 4 \\
 60)240 \\
 -240 \\
 \hline
 0
\end{array}$$

$$\therefore$$
 120 minutes = 120 ÷ 60 hours = 2 hours

$$\therefore$$
 240 minutes = 240 \div 60 = 4 hours = 4 hours

$$60)\overline{540} - 540$$

e.	60 minutes ∴ 185 minutes	= 1 hours = 185 ÷ 60 = 3 hours 5 minutes	$ \begin{array}{r} 3 \\ \hline 60)185 \\ -180 \\ \hline 5 \end{array} $
f.	60 minutes ∴ 315 minutes	= 1 hours = 315 ÷ 60 hours = 5 hours 15 minutes	$ \begin{array}{r} $

Exercise 12.5

Look at he calendar of present year and answer the following 1. questions:

Ans. Do it yourself.

2. Fill in the blanks:

- a. The September month has **30** days.
- b. There are 12 months in a year
- c. There are **52** weeks in a year.
- d. The January month has 31 days.
- e. There are 7 days in a week.
- f. There are **365** days in a year.

Exercise 12.6

Look at the month of June in the shown calendar and answer the following questions.

Ans. a. 30

b. 5 June

c. Do it yourself

d. Do it yourself

Mental Maths

Ans. Do it yourself.

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. b. 12

2. b. 11:10 3. a. 215

4. a. 20 minutes

Data Handling

Look Back

Match the activity with the time .

1.	match ti	ne activity with the time.
Ans.	Apple	99999
	Mango	
	Banana	مخالف مخالف

Now, observe the table and answer the question.

a. 3

b. Mango

c. 8

Exercise 13.1

1. Students of class III were asked to name their favourite games. Use the pictograph to answer the following answers.

a. Badminton

b. $2 \times 6 = 12$ students

c. $2 \times 20 = 40$ students

2. Look carefully at the pictograph given below and answer the questions.

a. Class 5

b. Class 3

c. $5 \times 32 = 160$ students

d. Class 1 and Class 4

e. $5 \times 2 = 10$ student

3. Draw a pictograph showing the different types of flowers in a garden.

Ans.

Flowers Numbers of flowers				
Rose				
marigold				
Tulip				
Sunflower				

Key: Use ♣ = 2 animals ♣ = 1 animal

4. Draw a pictograph showing different animals and their number.

Flowers	Numbers of flowers						
Zebra	99	99	99	99	99		99
Tiger	95	99	99	9			
Deer	9	99	99			99	9
Elephant	9	99	99	93	9		
Giraffe	95		9				

Key: Use ¶ = 2 animals ¶ = 1 animal

Exercise 13.2

Study this bar graph which shows the mode of transport used 1. by children to go to school. Answer the question that follow. d. 9

c. car

Bus b. 8 a. vellow and brown

2.

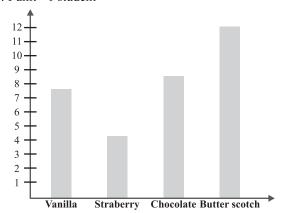
b. Orange, yellow, Brown and Blue

d. 18 m e. Blue

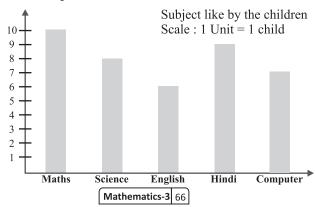
3. Favourite Ice-cream flavour of 32 students is given below. Represent this information using a bar graph.

Ice-cream flavour like by the students

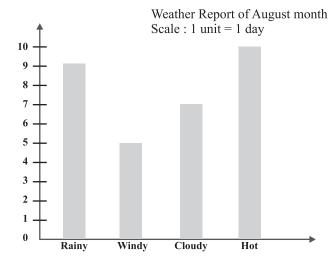
Scale: Lunit - 1 student



Draw a bar graph using the information given in the table for 4. favourite subject of children.



Fun with Maths



1 Large Numbers

Look Back

Look at the performance of these Indian cricketers and answer the following questions.

- Ans. a. Virat Kohli
- b. Suresh Raina
- c. 175

d. Rohit Sharma

Mental Maths

Circle the greatest number and cross the smallest number.

Ans.



Exercise 1.1

- 1. Read the abacus and write the number.
 - a. 66,049

Sixty-six thousand forty-nine.

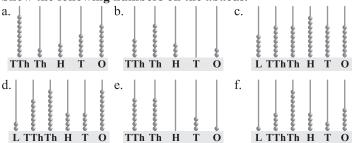
b. 5,2,506

Five lakh ninety-two thousand five hundred six.

c. 36,12,613

Thirty-six lakh twelve thousand six hundred thirteen.

2. Show the following numbers on the abacus.



3. Write in figures.

- a. Nine lakh two hundred thirty-two 9,00,232.
- b. Forty-eight thousand nine hundred eighty-four 48,984.
- c. Sixty thousand six 60,006.
- d. Eight lakh forty-three thousand five hundred fifteen 8,43,515.

4. Write the number names in Indian system.

- a. 23,125 Twenty-three thousand one hundred twenty-five.
 - b. 2,87,819 Two lakh, eighty-seven thousand eight hundred nineteen.
 - c. 9,27,471 Nine lakh twenty-seven thousand four hundred seventy-one.
 - d. 37,17,215 Thirty-seven lakh seventeen thousand two hundred fifteen.
 - e. 49,85,110 Forty-nine lakh eighty-five thousand one hundred ten.

1.		Numbers Place	Exercise 1.2 Value of underlined digit	face value of underlined digit.
	a.	457941	7,000	7
	b.	51,212	50,000	5
	c.	9,791	700	7
	d.	24,713	20,000	2
	e.	67,425	60,000	6
	f.	4,59,518	8	8
	g.	9,29,918	10	1
	h.	4,37,518	500	5
	i.	3,56,658	3,00,000	3

2. Write the expanded form of the following numbers.

- a. 25.805 = 20.000 + 5000 + 800 + 5
- b. 49,125 = 40,000 + 9000 + 100 + 20 + 5
- c. 92,234 = 90,000 + 2000 + 200 + 30 + 4
- d. 3,47,785 = 3,00,000 + 40,000 + 7,000 + 700 + 80 + 5
- e. 9,37,357 = 9,00,000 + 30,000 + 7000 + 300 + 50 + 7
- f. 6,75,173 = 6,00,000 + 70,000 + 5000 + 100 + 70 + 3

3. Write the short form of the following numbers.

- a. 10,723
- b. 32,176

c. 65,487

- d. 3,06,074
- e. 3,06,074
- f. 4,00,444

4. Fill in the table.

	iic tubici		
S.No.	Predecessor	Number	Successor
a.	3,79,439	379440	3,79,441
b.	9,73,000	9,73,01	9,73,002
c.	8,79,048	8,79,049	879050
d.	4,37,927	4,37,928	437929
e.	8,99,999	900000	9,00,001

Exercise 1.3

c. <

d. =

1. Compare each pair of numbers. Put >, < or = in the \square .

2. Arrange the following numbers in ascending order.

- a. 57,028 < 67,082 < 67,280 < 67,820
 - b. 32,728 < 36,128 < 37,185 < 39,571
 - c. 4,28,312 < 6,28,470 < 7,17,617 < 8,17,518
 - d. 4,06,219 < 5,31,325 < 6,15,104 < 61,25,041

3. Arrange the following numbers in descending order.

- a. 63,007 > 62,590 >; 62,950 > 62,509
- b. 93,234 > 92,345 > 90,148 > 90,418
- c. 9,17,338 > 9,43,126 > 9,71,823 > 9,17,238
- d. 9.51,121 > 9.01,246 > 8.13,306 > 8.31,415

4. Write the smallest and greatest number using each of the following digits only once.

S.No.	Digits	Smallest	Greatest
a.	8, 0, 7, 0, 4	40,078	87,400
b.	3, 1, 5, 9, 7	13,579	97,531
c.	9, 7, 4, 2, 8, 0	2,04,789	9,87,420
d.	7, 0, 1, 3, 2, 9	1,02,379	9,73,210
e.	0, 1, 5, 6, 2, 8	1,02,568	8,65210

- **5.** 1,03,576
- **6.** 91,000; 92,000; 93,000; 94,000; 95,000; 96,000; 96,000; 97,000; 98,000; 99,000 and 100,000.
- 7. 10,529; 10,531; 10,533; 10,533; 10,537; 10,539 and 10,541.
- **8.** 20,499; 20,519; 20,539; 20,539; 20,559; 20,579; 20,599 and 20,619.
- **9.** 10,000; 9,995; 9,990; 9,985 and 9,980.

Exercise 1.4

1. Round off to the nearest tens.

Ans. a. 49 rounded off to the nearest tens is 50.

- b. 193 rounded off to the nearest tens is 190.
- c. 3756 rounded off to the nearest tens is 3760.
- d. 77475 rounded off to the nearest tens is 77,480.
- e. 35876 rounded off to the nearest tens is 35,880.
- f. 98334 rounded off to the nearest tens is 98,330.

2. Round off to the nearest hundreds.

- a. 446 rounded off to the nearest hundreds is 400.
- b. 719 rounded off to the nearest hundreds is 700.
- c. 983 rounded off to the nearest hundreds is 1000.
- d. 8899 rounded off to the nearest hundreds is 8,900.
- e. 16253 rounded off to the nearest hundreds is 16,300.
- f. 18997 rounded off to the nearest hundreds is 19,000.

3. Round off the numbers to the nearest 1000.

- a. 3251 rounded off to the nearest 1000 is 3000.
- b. 6938 rounded off to the nearest 1000 is 7000.
- c. 20518 rounded off to the nearest 1000 is 21,000.
- d. 10734 rounded off to the nearest 1000 is 11,000.
- e. 19731 rounded off to the nearest 1000 is 20,000.
- f. 23126 rounded off to the nearest 1000 is 23,000.

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. a. 8254

2. b. 5703

3. b. 90502



Roman Numerals

Look Back

Complete the crossword with Hindu-Arabic numerals.

Ans.

1. 2	0		2.		
5			3. 5	0	
				4. 3	5. 4
		6.	9		0
		7		^{7.} 3	8. 2
9. 4	4				9

Exercise 2.1

b. 19

1. Match the following by colouring alike.

Ans.

TIRECULAR CA	e rono wing by corouring unite.
32	LXXXIX
29	XIVI
46	CDXXXIV
89	XXXII
434	XXIX

2. Write the following in Roman numerals.

a. 36 = XXXVI c. 39 = XXXIX

 $\begin{array}{ccc} d. & 47 & = & XLVII \\ f. & 275 & = & CCLX \end{array}$

e. 66 = LXVI g. 499 = CDXCIX f. 375 = CCLXXV h. 996 = CMXCVI

XIX

i. 140 = CXL

k. 555 = DLV

i. 288 = CCLXXXVIII

1. 107 = CVII

3. Write the following in Hindu-Arabic numerals.

a. XCV = 95 c. XXVI = 26 b. LXI = 61 d. XXIX = 29

c. XXVI = 26 e. DCCI = 701

f. XLVI = 46

g. LXXXIII = 83 i. XCIII = 93 h. CMLXXVI = 976 j. CCCXXXI = 331

k. CDII = 402

DCL = 650

4. Write Roman numerals that is.

a. XV XIV
c. XXII XXVI
e. XIV XXIV

b. XXX XXIX d. VIII III

e. XIV XXIV g. XXVIII XXI f. X VII h. XXI XXIII

Life Skills

Change Number into Roman Numerals

Ans. a. There are **XXVII** students in my class.

b. I am IX years old.

c. My birthday is on XVI of June.

d. Our Independence day is celebrated on XV August.

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. a. 34

2. c. IIV

3. b. XLV

4. c. XXXI

Addition and Subtraction

Look Back

Look at the heights of the peaks and answer the following questions.

Ans. 1. 113 m

2. 2,371 m

3. 1,129 m

4. 7,785 m

Exercise 3.1

1. Add:

1.

c.

2. Find the sum:

d.		L	TTh	Th	H	T	0
		4	3	7	1	0	5
	+	1	4	1	4	1	0
		5	9	8	5	3	0

3. Find the missing digits :

Exercise 3.2

1. Fill in the blanks:

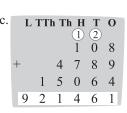
- a. 4975 + 3751 = 3751 + 4975
- b. 4094 + 7141 = 7141 + 4094
- c. 4333 + 1129 = 1129 + 4333
- d. 1875 + 2420 + 185 = 2420 + 185 + 1875
- e. $37945 + \mathbf{0} + 917 = 917 + 0 + 37945$
- f. 149 + 3196 + 99 = 3196 + 149 + 99
- g. 1449 + 326 + 7110 = 326 + 7110 + 1449
- h. $94317 + \mathbf{0} = 94317$
- i. The sum of the largest 5-digit number and 1 is equal to 1,00,000.
- j. 8649 + 98745 = 98745 + 4649.
- k. 310 + 981 + 309 = 981 + 309 + 310.
- 1. The successor of 3899 is **3900**.
- m. Answer of an addition operation is called sum.
- n. The numbers which are being added are called **addends**.

Exercise 3.3

1. Fill in the blanks:

```
h.
     L TTh Th H
                   0
    (1)(1)(2)(1)
                (1)
       6
          4
              9
                9 6
       3
          3
             8
                   5
                0
              3 4 5
          2 0 0 0
   +3
        1
           3
    6
        1
              4
                4
                   6
```

2. Find the sum of.



- d. TTh Th H T O

 1 2
 2 1 9 8 7
 1 8 6 3 2
 + 5 9 9 0 9
 8 3 7 2 8
- e. L TTh Th H T O (1) (2) (1) (1) (1) 3 6 5 3 2 3 4 9 9 8 5 6 4 3 4 9 2 1 4 6 1
- f. L TTh Th H T O (1) (2) (1) (1) (1) 4 3 8 1 0 4 3 3 2 4 5 4 1 2 6 7 3 5 5 5 2

Exercise 3.4

b.

1. Subtract.

- a. TTh Th H T O 8 7 3 8 6 -4 5 2 6 3 4 2 1 2 3
- TTh Th H T O
 9 8 4 0 8
 -6 5 3 0 7
 3 3 1 0 1
- c. TTh Th H T O
 6 3 4 9 9
 -1 2 1 6 9
 5 1 3 3 0

- d. LTTh Th H T O
 3 8 7 6 3 4
 + 5 0 5 2 1
 3 3 7 1 1 3
- e. LTTh Th H T O 6 6 4 0 5 8 +5 4 2 0 3 8 1 2 2 0 2 0
- f. L TTh Th H T O 4 7 5 9 6 1 -2 4 2 5 5 1 2 3 3 4 1 0

2. Find the difference:

- a. TTh Th H T O
 9 7 6 9 9
 -8 6 5 9 9
 1 1 1 0 0
- TTh Th H T O 9 6 7 8 7 -8 6 4 3 7 1 0 3 5 0

b.

b. 1

c. TTh Th H T O
6 4 6 7 9
-6 3 5 6 9

- d. L TTh Th H T O
 6 7 6 6 9 8
 -3 4 3 5 3 4
 3 3 3 1 6 4
- e. L TTh Th H T O
 7 6 6 4 3 8
 -4 4 3 3 2 1
 3 2 3 1 1 7
- f. L TTh Th H T O
 9 6 4 8 9 6
 -5 3 4 2 1 0
 4 3 0 6 8 6

3. Find the difference:

- a. TTh Th H T O 8 6 ③ 2 8 -6 4 1 8 6 2 ② 1 4 2
- L TTh Th H T O 3 4 8 0 2 1 - 8 6 9 5 0 2 6 1 0 7 1
- 0 c. LTTh Th H T O 9 6 8 4 3 8 0 -3 7 3 8 1 2 5 9 4 6 2 6

4. Fill in the boxes.

- a. 14,172 0 = 14,172
- c. 97,233 0 = 97,233
- e. 6,14,234 0 = 6,14,234
- b. 73,408 73,408 = 0
- d. 47,235 47,235 = 0
- f. 4,72,999 1 = 4,72,998

Hots

Exercise 3.5

1. Subtract.

- a. 4 3 2 6 5 -1 7 5 3 4 2 5 7 3 1
- b. 4 8 5 4 5 -3 3 5 6 6 1 4 9 7 9
- c. 9 1 0 9 3 2 -6 0 8 7 8 3 3 0 2 1 4 9
- Mathematics-4 77

- 7 6 0 0 0 0 8 5 8 4 7 0 6 0 0 8 5 f. d. e. -343207 -425178 -601983 4 1 6 7 9 3 2 5 6 4 8 7 3 3 4 9 0 7 6 4 3 6 7 3 6 8 7 0 0 3 6 0 0 6 1 0 g. -299465 -291-319588 3 2 4 0 8 5 3 8 7 5 3 8 3 0 7 7 2 6
- 2. Find the difference and check your answer:
 - a. 8 5 1 0 6 -3 7 2 5 4 4 7 8 5 2

 +3 7 2 5 4 8 5 1 0 6

 -7 0 2 9 3 -7 0 2 9 3 -7 0 2 9 3 -7 0 2 9 3

 - e. 960085 -625178 334907 +625178 960085 So, subtraction is correct.

 f. 800000 -625178 450270 +349730 800000 800000 So, subtraction is correct.

So, subtraction is correct.

h. 700000 -598765 101235 +598765 700000 So, subtraction is correct.

i. 8 5 1 2 5 6 -2 1 4 3 2 1 6 3 6 9 3 5 +2 1 4 3 2 1 8 5 1 2 5 6

So, subtraction is correct.

Exercise 3.6

- 1. Number of men = 2,3650 Number of women = 51,173 Number of children = + 60,850 Total number of people = 1,35,673
 - \therefore Total population of the town 1,35,673.

Mr Kumar's annual income 2. = ₹ 4,19290 = ₹ Less annual income 5860 = ₹ Amar's annual income 4,13,430 ∴ Amar's annual income is ₹ 4.13.430. Number of apples harvested 3. 55,990 Number of apples sold 17897 = Number of apples 55,990 - 17,8970= 38,093 So, 38093 apples are left with Raghu. 4. Mobile produce, in February 14,705 in March 26,020 in April 30,750 Total number of Mobile produced 71,475 So, 71,475 mobile were produced in three months. Total cost of a plot and motorcycle = ₹5,50,000 5. Cost of motorcycle ₹ 83,754 .. Cost of plot of land = 4,66,246 ∴ Mr. Millar paid ₹ 4,66,246 for the plot of land. People visited Shimla, 6. in this year 3,52,469 in the previous year = + 4.37.218Total people visited in both year 7,89,687 :. 7,89,687 people visited Shimla in both years. 7. Quantity of rice 8,54,090 kg Quantity of what 6,24,479 kg Rice was more than wheat 2,30,611 kg : 2,30,611 kg rice was more than wheat in the godewn. In examination. 8. Passed candidate 89,576 Failed candidate 8,617 :. Total appeared candidate 98,193 So, 98,193 candidates appeared in the examination.

Exercise 3.7

1. a. Rounded off the numbers to the nearest 10's we get,

Actual value Estimated value 52 50 + 30 Estimated Sum = 80

b. After rounded off the numbers nearest 10's

Actual value Estimated value 80 80 38 40 Estimated difference = 80 - 40 = 40

c. After rounded off the numbers nearest 10's

Actual value Estimated value 914 910 276 280 Estimated sum = 901 + 280 = 1190

d. After rounded off the numbers nearest 10's

 Actual value
 Estimated value

 206
 210

 145
 150

 Estimated difference = 210
 150 = 60

2. a. After rounded off the numbers nearest hundred's

Actual value Estimated value 686 700 243 200 Estimate sum = 700 + 200 = 900

b. After rounded off the numbers nearest hundred's

Actual value Estimated value 6174 6200 3318 3300

Estimated difference = 6200 - 3300 = 2900

c. After rounded off the numbers nearest hundred's

Actual value Estimated value 7521 7500 1687 1700 Estimated sum = 7500 + 1700 = 9200

d. After rounded off numbers nearest hundred's

Actual value Estimated value 4667 4700 1085 1100

Estimate difference 4700 - 1100 = 3600

3. After rounded off numbers nearest 10's

> Actual value Estimated value ₹ 18,759 ₹ 18,760 ₹ 1,25,700 ₹ 1.25.699

Estimated sum = $\overline{\xi}$ (18,760 + 1,25,700) = $\overline{\xi}$ 1,44,460

After rounded off numbers nearest 100's Actual value Estimated value

₹ 18759 ₹ 18,800 ₹ 1.25,699 ₹ 1,25,700

Estimated sum = ₹ (18,800 + 1,25,700) = ₹ 1,44,500

After rounded off numbers nearest 1000's

Actual value Estimated value ₹ 18,759 19000 ₹ 1,25,699 1.26000

Estmated sum = $\overline{\xi}$ (19000 + 1,26,000) = $\overline{\xi}$ 1,45000

Ans. ₹ 1,44,460, ₹ 1,44,500, ₹ 1,45,000

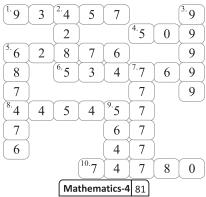
Multiple Choice Questions

Tick (✓) the correct choice:

c. 1,99,99 3. a. minuend 4. b. 12752 **Ans.** 1. c. 5735 2.

Fun with Maths

Solve the crossword.



Down ↓

- 2. 4286-1
- 3. successor of 99998
- $5. 587476 \pm 100000$
- 7. 87777 10000
- 9. 44384 + 564 = 564 + 44384

Across →

- 1. 93457+0
- 4. 63056 62547
- 5. 62776 + 100
- 6. 299120 + 235647
- 8. 457457 1000
- 10. 74770 + 10

4

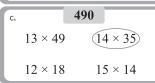
Multiplication

Look Back

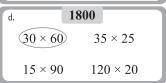
Look at the heights of the peaks and answer the following questions.

Ans.

a.	135
3 × 25	35 × 3
45 × 3) 23 × 6



b.	276	
10 × 76	27×6	
12 × 23) 18 × 15	5



Fill in the blanks.

- **Ans.** 1. $15 \times 1 = 10$
 - 3. $27 \times 1 = 27$
 - 5. $1 \times 1 = 1$
 - 7. $14 \times 0 = 0$
 - 9. $1 \times 33 = 33$
 - 11. $15 \times 8 = 8 \times 15$

- $2. \quad 4 \times \mathbf{0} \times 5 = 0$
- 4. $1 \times 1 = 16$
- 6. $0 \times 0 = 0$
- 8. $(3 \times 4) \times 2 = (2 \times 3) \times 4$
- 10. $16 \times \mathbf{0} = 0$
- 12. $6 \times 5 \times 9 = 9 \times 6 \times 5$

Exercise 4.1

1. Fill in the blanks:

- a. $111 \times 314 = 314 \times 111$
- b. $1945 \times 0 = 0$
- c. $361 \times 1 = 361$

- d. $569 \times 318 \times 937 = 937 \times 318 \times 569$
- e. $9100 \times 1 = 9100$
- $1845 \times 0 = 0$ f.

2. Find the product:

Ans.

a.	(1)	(2)	
	2	3	6
		×	4
	9	4	4

b.

c.

$$\begin{array}{c} & & & & \\ 3 & 0 & 8 \\ & \times & 7 \\ 2 & 1 & 5 & 6 \end{array}$$

d.

$$\begin{array}{c}
4 & 0 \\
2 & 8 & 3 \\
\times & 5 \\
1 & 4 & 1 & 5
\end{array}$$

e.

f.

g.

h.

Exercise 4.2

Find the product: 1.

> 1 2 4 b. × 1 3

+ 1 2 4 0 1 6 1

Ans. 1612

2 1 3 c. \times 1 5 1 0 6 5 + 2 1 3 0

3 1 9 5 Ans. 3195

7 5 d. 1 8 \times 3 5

9 3 7 5 + 5 6 2 5 0 6 5 6 2 5

Ans. 65625

9 4 \times 7 5

1 8 9 7 0 + 2 6 5 5 8 0 2 8 4 5 5 0

Ans. 284550

2. Find the product:

a.
$$378 \times 32 = 12,096$$

$$\begin{array}{c} 3 & 7 & 8 \\ \times & 3 & 2 \\ \hline & 7 & 5 & 6 \\ + & 1 & 1 & 3 & 4 & 0 \\ 1 & 2 & 0 & 9 & 6 \end{array}$$

$$136 \times 49 = 6,664$$

c.
$$843 \times 18 = 15,174$$

$$\begin{array}{r}
 8 4 3 \\
 \times 1 8 \\
 \hline
 6 7 4 4 \\
 + 8 4 3 0 \\
 \hline
 1 5 1 4 7
\end{array}$$

d.
$$1395 \times 64 = 89,280$$

e. $2407 \times 35 = 84.45$

		2	4	0	7
			×	3	5
	1	2	0	3	5
+	7	2	2	1	0
	8	4	2	4	5

g. $1539 \times 26 = 40,014$

		1	5	3	9	
			×	2	6	
		9	2	3	4	
+	3	0	7	8	0	
	4	0	0	1	4	

i. $1234 \times 48 = 59,232$

f. $3087 \times 37 = 1,14,29$

$$\begin{array}{r}
3 & 0 & 8 & 7 \\
 & \times & 3 & 7 \\
\hline
2 & 1 & 6 & 0 & 9 \\
+ & 9 & 2 & 6 & 1 & 0 \\
1 & 1 & 4 & 2 & 1 & 9
\end{array}$$

h. $2056 \times 22 = 45,232$

		2	0 ×	5 2	
		4	1	1	2
+	4	1	1	2	0
	4	5	2	3	2

Exercise 4.3

1. Find the product : $a. 809 \times 312 = 252408$

$$\begin{array}{r}
 8 0 9 \\
 \times 3 1 2 \\
\hline
 1 6 1 8 \\
 8 0 9 0 \\
 + 2 4 2 0 0 \\
\hline
 2 5 2 4 0 8
\end{array}$$

c. $473 \times 208 = 98,384$

$$\begin{array}{r}
4 & 7 & 3 \\
\times & 2 & 0 & 8 \\
\hline
3 & 7 & 8 & 4 \\
+ & 9 & 4 & 6 & 0 & 0 \\
\hline
9 & 8 & 3 & 8 & 4
\end{array}$$

b. $429 \times 246 = 1,05,534$

$$\begin{array}{r}
4 & 2 & 9 \\
\times & 2 & 4 & 6 \\
\hline
2 & 5 & 7 & 4 \\
1 & 7 & 1 & 6 & 0 \\
+ & 8 & 5 & 8 & 0 & 0 \\
1 & 0 & 5 & 5 & 3 & 4
\end{array}$$

d. $606 \times 440 = 2,66,640$

- - 3 8 6
 - \times 3 8 6 3 0 2
 - 7 7 2
 - 0 0 0 0
 - + 1 1 5 8 0 0
 - 1 1 6 5 7 2
- $1629 \times 214 = 48,606$ g.
 - 1629
 - \times 2 1 4
 - 6 5 1 6
 - 1 6 2 9 0
 - + 3 2 5 8 0 0 3 4 8 6 0 6
- i. $1318 \times 207 = 2,72,826$ 1629
 - × 2 1 4
 - 6 5 1 6
 - 16290
 - + 3 2 5 8 0 0
- 3 4 8 6 0 6
- k. $2795 \times 244 =$
 - 2 7 9 5 \times 2 4 4
- m. $4070 \times 960 = 39,07,200$ n. $8973 \times 602 = 54,01,746$
 - 4 0 7 0
 - \times 9 6 0 0 0 0 0
 - 2 4 4 2 0 0
 - 3 6 6 3 0 0 0

 - 3 3 0 3 2 0 0

- e. $386 \times 302 = 1{,}16{,}572$ f. $3257 \times 181 = 5{,}89{,}517$
 - 3 2 5 7 \times 1 8 1
 - 3 2 5 7
 - 2 6 0 5 6 0
 - + 3 2 5 7 0 0
 - 5 8 9 5 1 7
 - h. $1363 \times 543 = 7,40,109$
 - 1 3 6 3
 - \times 5 4 3 4 0 8 9
 - 5 4 5 2 0
 - + 6 8 1 5 0 0
 - 740109
 - j. $1615 \times 301 =$
 - 1 6 1 5
 - \times 3 0 1
 - 1.
 - $516 \times 170 = 87,720$ 5 1 6
 - \times 1 7 0
 - 0 0 0 3 6 1 2 0

 - 5 1 6 0 0 8 7 7 2 0
 - - 8 9 7 3 \times 6 0 2
 - 17946
 - 0 0 0 0
 - 5 3 8 3 8 0 0
 - 5 4 0 1 7 4 6

o. $1596 \times 348 = 5,55,408$

$$\begin{array}{c}
1 & 5 & 9 & 6 \\
\times & 3 & 4 & 8 \\
\hline
1 & 2 & 7 & 6 & 8 \\
6 & 3 & 8 & 4 & 0 \\
4 & 7 & 8 & 8 & 0 & 0
\end{array}$$

5 5 5 4 0 8

2. Fill in the blanks:

- a. $63 \times 200 = 12.600$
- c. $128 \times 40 = 5120$
- b. 79 × 1000 = **79000** d. 407 × 5000 = **2035000**
- e. $325 \times 90 = 29250$
- f. $82 \times 300 = 24600$

Exercise 4.4

1. a. After rounded off the numbers nearest the ten's.

Actual value	Estimated value
82	80
63	60

Estimated product = $80 \times 60 = 4800$

b. After rounded off the numbers nearest ten's

Actual value	Estimated value
75	80
46	50

Estimated product = $80 \times 50 = 4000$

d. After rounded off the numbers nearest ten's

Actual value	Estimated value
26	30
29	30

Estimated product = $30 \times 30 = 900$

e. After rounded off the numbers nearest ten's

Actual value	Estimated value
67	70
41	40

Estimated product = $70 \times 40 = 2800$

f. After rounded off the number nearest ten's

Actual value	Estimated value
77	80
8	10

Estimated product = $80 \times 10 = 800$

2. a. After rounded off the numbers nearest hundred's

Actual value Estimated value

749 700 261 300

- \therefore Estimated product = $700 \times 300 = 210000$
- b. After rounded off the numbers nearest hundred's

Actual value Estimated value

327 300 816 800

Estimated product = $300 \times 800 = 240000$

c. After rounded off the numbers nearest hundred's

Actual value Estimated value

536 500 748 700

Estimated product = $500 \times 700 = 350000$

d. After rounded off the numbers nearest hundred's

Actual value Estimated value

634 600 459 500

- \therefore Estimated product = $600 \times 500 = 3,00,000$
- e. After rounded off the numbers nearest hundred's

Actual value Estimated value

853 900 393 400

Estimated product = $900 \times 400 = 360000$

f. After rounded off the numbers nearest hundred's

Actual value Estimated value

407 400 231 200

Estimated product = $400 \times 200 = 80000$

Exercise 4.5

1. Rajni pays her school fee in 1 month = ₹ 997

∴ Rajni paid her school fee in 12 month = ₹ 997 × 12

= ₹ 11,964.

9 9 7

2.	So, Rajni will paid ₹ 11,964 as fee for a year. Number of mangoes pach in 1 box = 135 ∴ Number of mangoes paced in 32 boxes = 135×3 = 4320 1 3 5 × 3 2 2 7 0 4 0 5 0 4 3 2 0					
3.	∴ A farmer will pack 4320 mangoes in the 32 boxes. There are days in 1 year = 365					
4.	∴ There are days in 8 years $= 365 \times 8 = 2920$ So, there are 2920 days in 8 years. From each member, Arijit collected = ₹ 1500					
	Number of members = 9 ∴ From 9 member Arijit collected = ₹ 1500 × 9 = ₹ 13500.					
5.	So, Arijit collected ₹ 13500. 1 day = 24 hours = 24 × 60 minutes = 1440 minutes Our heart beats in 1 minutes = 72 times ∴ Our heart beats in 1440 minutes = 72 × 1440 times = 1,03,680 times $ \begin{array}{c} 1 & 4 & 4 & 0 \\ & \times & 7 & 2 \\ \hline 2 & 8 & 8 & 0 \\ 1 & 0 & 0 & 8 & 0 \\ \hline 1 & 0 & 3 & 6 & 8 & 0 \end{array} $					
6.	So, our hearts beats 1,03,680 times in a day. The cost of 1 trourer = ₹ 1279					
0.	∴ The cost of 26 trourers = ₹ 1279 × 26 = ₹ 13,254 \times 1 5 7					
7.	∴ The cost of 26 trouser will be ₹ 33,254. 9 0 1 6 Weight of 1 papaya = 1288 grams 6 4 4 0 0 ∴ Weight of 157 papaya = 1288×157 = 2,02,216 grams 1 2 8 8 0 0 2 0 2 2 1 6					
8.	So, weight of 157 papaya is 202 kg 216 grams. 1 truck carrys the boxes of apples = 3432 ∴ 6 trucks will carry the boxes of apples = 3432 × 6 = 20592 So, 6 trucks will carry 20,592 boxes of apples.					
7D: -1-	Fun with Maths					
	(/) the correct choice : a. 3,000 b. 64,00 c. 150 d. 24000					
Multiple Choice Questions Tick (✓) the correct choice: Ans. 1. b. product 2. b. 4180 3. a. 381 4. a. 45,16						
Mathematics-4 88						

Look Back

Simran used all the question bucket to point the answer house.

Ans.











Exercise 5.1

Fill in the blanks:

Ans. a.
$$214 \div 1 = 214$$

c.
$$25 \div 1 = 25$$

e.
$$12 \div 12 = 1$$

g.
$$0 \div 415 = 0$$

i.
$$39 \div 99 = 1$$

b.
$$175 \div 1 = 175$$

d.
$$180 \div 180 = 1$$

f.
$$0 \div 9 = 0$$

h.
$$\mathbf{0} \div 16 = 0$$

Exercise 5.2

1. Divide and check your answer.

a.
$$\frac{102}{4)308}$$
 $-3\downarrow$
 00
 $-\frac{0}{08}$
 $-\frac{6}{2}$

$$308 \div 3$$

Quotient =
$$102$$
, Remainder = 2

$$3 \times 102 + 2 = 306 + 2 = 308$$

b.
$$\frac{43}{4)259}$$

$$-\frac{24\downarrow}{19}$$

$$\frac{-18}{1}$$

$$\frac{-18}{1}$$
Thus, the division is correct.

$$259 \div 6$$
Divisor = 6, Quotient = 43

Remainder = 1, Dividend = 259

Check: Divisor × Quotient + Remainder

= Dividend
$$6 \times 43 + 1 = 258 + 1 = 259$$
Thus, the division is correct.

c.
$$\frac{33}{4)235}$$
 $235 \div 7$
Divisor = 7, Quotient = 33

Remainder = 4 Dividend = 235

Check: Divisor × Quotient + Remainder

= Dividend

 $7 \times 33 + 4 = 231 + 4 = 235$

Thus, the division is correct.

d.
$$\frac{91}{4)729}$$

$$-\frac{72}{09}$$

$$\frac{-8}{1}$$

$$\frac{-1}{1}$$

$$\frac{-8}{1}$$

e.
$$\begin{array}{r}
108 \\
9)\overline{978} \\
-9 \downarrow \\
078 \\
-78 \\
-6 \\
\hline
\end{array}$$
Divisor = 9, Quotient = 108
Remainder = 6, Dividend = 978
Check: Divisor × Quotient + Remainder
= Dividend
$$9 \times 108 + 6 = 972 + 6 = 978$$
Thus, the division is correct.

f.
$$\frac{29}{9)267}$$

$$-\frac{18 \downarrow}{87}$$

$$\frac{-81}{6}$$
Divisor = 9, Quotient = 29
Remainder = 6, Dividend = 267
Check: Divisor × Quotient + Remainder
$$= \text{Dividend}$$

$$9 \times 29 + 6 = 261 + 6 = 267$$
Thus, the division is correct.

```
457 ÷ 9
g.
                      Divisor = 9, Quotient = 50 Remainder = 7
                      Check: Divisor × Quotient + Remainder
                      = Dividend
                      9 \times 50 + 7 = 450 + 7 = 457
                      Thus, the division is correct.
h.
                      903 \div 7
                      Divisor = 7, Quotient = 129
                      Remainder = 0 Divided = 903
                      Check: Divisor × Quotient + Remainder
                      = Dividend
                      7 \times 129 + 0 = 903 + 0 = 903
                      Thus, division is correct.

  \begin{array}{r}
    1076 \\
    7)2153 \\
    -2 \\
    \hline
    15
  \end{array}

                      2153 \div 2
                      Divisor = 2, Quotient = 1076,
                      Remainder = 1 \text{ dividend} = 2153
                      Check:
                      Divisor \times Quotient + Remainder
                      = Dividend
                      2 \times 1076 + 1 = 2152 + 1 = 2153
                      Thus, the division is correct.
                      649 \div 3
                      Divisor = 3, Quotient = 216
                      Remainder = 1, dividend = 649
                      Check:
                      Divisor × Quotient
                      3 \times 216 + 1 = 648 + 1 = 649
                      Thus, the division is correct.
                      7595 \div 6
                      Divisor = 6, Quotient = 1265
                      Remainder = 5, Dividend = 7595
                      Check:
      -\frac{12}{39}
                      Divisor \times Quotient + Remainder = Dividend
                      6 \times 1265 + 5 = 7590 + 5 = 7595
       -\frac{30}{35}
                      Thus, division is correct.
         -30
                         Mathematics-4 91
```

1.	8437 ÷ 8 Divisor = 8, Quotient = 1054 Remainder = 5 Dividend Check: Divisor × Quotient + Remainder = Dividend 8 × 1054 + 5 = 8432 + 5 = 8437 Thus, the division is correct.
m.	4040 ÷ 3 Divisor = 3, Quotient = 1346, Remainder = 2 and Dividend = 4040 Check: Divisor × Quotient + Remainder = Dividend 3 × 1346 + 2 = 4038 + 2 = 4040 = Dividend So, the division is correct.
n. 402 6)2416 -24 116 -12 4	2416 ÷ 6 Divisor = 6, Quotient = 402 Remainder = 4, Dividend = 2416 Check: Divisor × Quotient + Remainder = Dividend 6 × 402 + 4 = 2412 + 4 = 2416 = Dividend So, the division is correct.
0. $\frac{353}{3)1059}$ $\frac{-9}{15}$ $-\frac{15}{9}$ $\frac{-9}{0}$	1059 ÷ 3 Divisor = 3, Quotient = 353 Remainder = 0, Dividend = 1059 Check: Divisor × Quotient + Remainder = Dividend 3 × 353 + 0 = 1059 = dividend So, the division is correct.
p. $\frac{912}{3)3648}$ $-\frac{36}{4}$ $\frac{-4}{8}$ $\frac{-8}{0}$	Divisor = 4, Quotient = 912 Remainder = 0, Dividend = 3648 Check: Divisor × Quotient + Remainder = Dividend 4 × 912 + 0 = 3648 = 3648 = Dividend So, the division is correct. Mathematics-4 92

$$\begin{array}{r}
323 \\
7)969 \\
-9 \\
\hline
06 \\
-6 \\
\hline
08 \\
-9
\end{array}$$

$$\begin{array}{r}
115 \\
8)924 \\
-8 \\
12 \\
-8 \\
44 \\
-40 \\
\underline{4}
\end{array}$$

Quotient = 323Remainder = 0 Quotient = 115 Remainder = 4

h.

c.
$$\frac{211}{4)844}$$
 $-\frac{8}{04}$ -4

d.
$$\frac{124}{8)874}$$
 $\frac{-7}{17}$
 $\frac{-14}{34}$

$$\begin{array}{r}
 \frac{115}{6)738} \\
 -6 \\
 \hline
 13 \\
 -12 \\
 \hline
 18 \\
 -18 \\
 \hline
 0$$

Quotient = 211Remainder = 0

Quotient = 123 Remainder = 0

f.
$$\frac{113}{4)565}$$
 $-\frac{5}{06}$
 $\frac{-5}{15}$
 $-\frac{15}{0}$

g.
$$\frac{3181}{3)9543}$$
 $\frac{-9}{5}$
 $\frac{-3}{24}$
 $\frac{24}{3}$
 $\frac{-3}{0}$

$$\begin{array}{r}
 115 \\
 6)738 \\
 -6 \\
 \hline
 13 \\
 -12 \\
 \hline
 18 \\
 -18 \\
 \hline
 0
\end{array}$$

Quotient = 211Remainder = 0

Quotient = 123Remainder = 0

i.
$$\frac{897}{3)5383}$$
 j. $\frac{757}{3)6818}$ $\frac{1347}{3)9432}$ $\frac{-48}{58}$ $\frac{-63}{51}$ $\frac{-7}{24}$ $\frac{-45}{68}$ $\frac{-21}{3}$ $\frac{42}{24}$ $\frac{63}{5}$ $\frac{28}{52}$ $\frac{-49}{03}$ Quotient = 897 Remainder = 1 Remainder = 5 Remainder = 3 Remainder = 3 Remainder = 3 Remainder = 5 Remainder = 5 Remainder = 6 Remainder = 6 Remainder = 757 Remaind

Mental Maths

Find the quotient and remainder without doing long division.

Ans. O R O

S.		Q	R		Q	R
1. 99	÷ 10	9	9	2. 1350 ÷ 10	135	0
3.41	07 ÷ 10	410	7	4. 9999 ÷ 10	999	9
				$\overline{}$		

Exercise 5.3

1. Fill in the blanks.

2. Divide the following numbers by 10 and write the quotient and remainder.

When a number is divided by 10, the digit at the ones place is remainder and rest of digits are quotient.

	Q	R
$961 \div 10$	96	1
$398 \div 10$	39	8
$462 \div 10$	46	2
$1011 \div 10$	101	1
$2654 \div 10$	265	4
$12345 \div 10$	1234	5
$3922 \div 10$	392	2
$894 \div 10$	89	4
	$398 \div 10$ $462 \div 10$ $1011 \div 10$ $2654 \div 10$ $12345 \div 10$ $3922 \div 10$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

3. Divide the following numbers by 100.

When a number is divided by 100, the digits at ones and tens places are remainder and rest are quotient.

P	account a continuo	and represented de	O ULULU
		Q	R
a.	$925 \div 100$	9	25
b.	$52630 \div 100$	52	63
c.	$3498 \div 100$	34	98
d.	$25607 \div 100$	256	07
e.	$5629 \div 100$	56	29
f.	$71808 \div 100$	718	08
g.	$13629 \div 100$	136	29
ĥ.	$4810 \div 100$	48	10

4. Divide the following numbers by 1000.

When a number is divided by 1000, the digits at the ones tens and hundreds place are the remainder and rest are quotient.

b. 5209 ÷ 1000	5	209
c. $3856 \div 1000$	3	856
d. 21347 ÷ 1000	21	347
e. $62820 \div 1000$	62	820
f. 51058 ÷ 1000	51	058
g. $72002 \div 1000$	13	629
h. 572009 ÷ 1000	527	9

Exercise 5.4

1. Divide and check your answer.

$$\begin{array}{r}
 28 \\
 21)600 \\
 -42 \\
 \hline
 180 \\
 -168 \\
 \hline
 12
\end{array}$$

c.
$$\frac{41}{18)755}$$
 $-\frac{72}{35}$
 $\frac{-18}{17}$

So,
$$Q = 41$$
, $R = 17$
Check: $Q \times D + R$
= Dividend
 $41 \times 18 + 17 = 738 + 17$
= 755 (Dividend)
So, answer is correct.

b.
$$21) 93 \\ -80 \\ -13$$

So,
$$Q = 5$$
, $R = 13$
Check: $Q \times D + R$
= Dividend
 $5 \times 16 + 13 = 80 + 13$
= 13 (Dividend)
So, answer is correct.

d.
$$\frac{51}{15)769}$$
 $-\frac{75}{19}$
 $\frac{-15}{4}$

So,
$$Q = 51$$
, $R = 4$
Check: $Q \times D + R$
= Dividend
 $15 \times 51 + 4 = Dividend$
 $765 + 4 = 769 =$
So, answer is correct.

e.
$$\frac{19}{14)278}$$
 $-\frac{14}{138}$
 $-\frac{126}{12}$

So,
$$Q = 19$$
, $R = 12$
Check: $Q \times D + R$
= Dividend
 $19 \times 14 + 12 = Dividend$
 $266 + 12 = 278 = Dividend$
So, answer is correct.

g.
$$8 \over 14)426 \\ -408 \over 18$$

So,
$$Q = 8$$
, $R = 18$
Check: $Q \times D + R$
= Dividend
 $8 \times 51 + 18 = Dividend$
 $408 + 18 = 426 = Dividend$
So, answer is correct.

i.
$$45$$

$$16)735$$

$$-64$$

$$90$$

$$-80$$

$$15$$

So,
$$Q = 45$$
, $R = 15$
Check: $Q \times D + R$
= Dividend
 $45 \times 16 + 15 = 720 + 15$
= Dividend
 $735 =$ Dividend
So, answer is correct.

f.
$$\frac{32}{14)579}$$
 $-\frac{54}{39}$
 $-\frac{36}{3}$

So,
$$Q = 32$$
, $R = 3$
Check: $Q \times D + R$
= Dividend
 $32 \times 18 + 3 = 576 + 3$
= $579 = (Dividend)$
So, answer is correct.

$$\begin{array}{r}
 27 \\
 21)567 \\
 -42 \\
 \hline
 147 \\
 -147 \\
 \hline
 0
\end{array}$$

h.

j.

So,
$$Q = 27$$
, $R = 0$
Check: $Q \times D + R$
= Dividend
 $27 \times 21 + 0 = 567 + 0$
 $567 = Dividend$
So, answer is correct.

$$\begin{array}{r}
 7 \\
 25)175 \\
 -175 \\
 \hline
 0
\end{array}$$

So,
$$Q = 7$$
, $R = 0$
Check: $Q \times D + R$
= Dividend
 $7 \times 25 + 0 = 175 + 0$
= Dividend
 $175 = Dividend$
So, answer is correct.

k.
$$\frac{23}{22)525}$$

So,
$$Q = 23$$
, $R = 19$

Check :
$$Q \times D + R$$

$$23 \times 22 + 19 = 506 + 19$$

= Dividend

$$\frac{05}{-00}$$

So,
$$Q = 30$$
, $R = 5$

Check :
$$Q \times D + R$$

= Dividend

$$30 \times 23 + 5 = 690 + 5$$

695 = DividendSo, answer is correct.

2. Divide the following and write the quotient and remainder.

1.
$$\frac{23}{22)525}$$

$$\frac{2)525}{-44}$$
 $\frac{-44}{85}$
 $\frac{-66}{19}$

$$\begin{array}{r}
 9 \\
 81)735 \\
 -729 \\
 \hline
 6
 \end{array}$$

c.
$$9$$
 $44)433$
 -396
 37

$$\Omega = 7 R = 1$$

$$Q = 9, R = 6$$

$$Q = 7, R = 12$$
 $Q = 9, R = 6$ $Q = 9, R = 37$

d.
$$\frac{8}{42)345}$$
 $-\frac{336}{9}$

$$\begin{array}{r}
14)278 \\
-14 \\
\hline
138 \\
-126 \\
\hline
13
\end{array}$$

$$\begin{array}{r}
 32 \\
 \hline
 18)579 \\
 -\underline{54} \\
 39 \\
 -\underline{36} \\
 \underline{3}
 \end{array}$$

$$Q = 8, R = 9$$

$$O = 19$$
. $R = 12$

$$Q = 19, R = 12$$
 $Q = 32, R = 3$

g.
$$\frac{11}{14)513}$$
 $-\frac{45}{63}$
 $\frac{-45}{18}$

i.
$$\frac{7}{34)256}$$
 $-\frac{238}{18}$

$$Q = 11, R = 18$$
 $Q = 6, R = 7$ $Q = 7, R = 18$

$$O = 6$$
, $R = 7$

$$Q = 7, R = 18$$

j.
$$8 \over 56)460 \over -448 \over 12$$

k.
$$\frac{4}{21)104}$$
 $\frac{-84}{20}$

1.
$$\frac{7}{18)141}$$
 $-\frac{126}{15}$

$$Q = 8, R = 12$$

$$Q = 4, R = 20$$

$$Q = 7, R = 15$$

m.
$$\frac{4}{56)231}$$
 $-\underline{228}$
 $\underline{3}$

o.
$$\frac{15}{38)607}$$
 $-\frac{38}{227}$
 $-\frac{190}{37}$

$$Q = 4, R = 3$$

$$Q = 11, R = 57$$

$$Q = 15, R = 37$$

p.
$$\frac{11}{82)952}$$
 $-\frac{82}{132}$
 $\frac{-82}{50}$

$$Q = 11, R = 50$$

3. Divide and check your answer.

a.
$$\frac{170}{52)8841}$$
 Quotient = 170, Remainder = 1
Divisor = 52, Dividend = 8841

 $\frac{-52}{364}$ Check: Q × D + R = Dividend
 $\frac{-364}{01}$ So, answer is correct.

 $\frac{-0}{364}$ Check: Q × D + R = Dividend

b.
$$\frac{39}{53)2089}$$
 Quotient = 39, Remainder = 22
Divisor = 53, Dividend = 2089
Check: Q × D + R = Dividend
 $\frac{-477}{22}$ So, answer is correct.

c. $\frac{55}{53)5204}$ $-\frac{465}{554}$ $\frac{-465}{89}$	Quotient = 55, Remainder = 89 Divisor = 93, Dividend = 5204 Check: $Q \times D + R = Dividend$ $55 \times 93 + 89 = 5115 + 89 = 5204 = Dividend$ So, answer is correct.
d. 55 $53)5204$ -465 554 -465 89	Quotient = 133, Remainder Divisor = 48, Dividend = 6400 Check : $Q \times D + R = Dividend$ $133 \times 48 + 16 = 6384 + 1 = 6400 = Dividend$ So, answer is correct.
e. 84 $75)6301$ -600 301 -300 1	6301 by 75 Quotient = 84, Remainder = 1 Divisor = 75, Dividend = 6301 Check: Q × D + R = Dividend 84 × 75 + 1 = 6300 + 1 = 6301 = Dividend So, answer is correct.
f. $\frac{158}{18)4424}$ $\frac{-162}{224}$ $\frac{-224}{0}$	Quotient = 158, Remainder = 0 Divisor = 28, Dividend = 4424 Check : $Q \times D + R = Dividend$ $158 \times 28 + 0 = 4424 + 0 = 4424 = Dividend$ So, answer is correct.
g. 241 $17)4110$ -34 71 -68 30 -17 13	4110 by 17 Quotient = 24, Remainder = 13 Divisor = 17, Dividend = 4110 Check: $Q \times D + R = Dividend$ $241 \times 17 + 13 = 4097 + 13$ = 4110 = Dividend So, answer is correct.
h. $ \begin{array}{r} 206 \\ 75)3708 \\ -36 \\ \hline 108 \\ -108 \\ \hline 0 \end{array} $	Quotient = 206, Remainder = 0 Divisor = 18, Dividend = 3708 Check : $Q \times D + R = Dividend$ $206 \times 18 + 0 = 3708 + 0 = 3708 = Dividend$ So, answer is correct.

Exercise 5.5

So, answer is correct.

1. Fill in the table and estimate the quotient.

Ans.

	QUESTION	ROUNDS TO	DIVISION	ESTIMATED QUOTIENT
a.	78 ÷ 18	10	$80 \div 20 = 8 \div 2$	4
b.	289 ÷ 69	10	$290 \div 70 = 29 \div 7$	4

c.	691 ÷ 51	10	$690 \div 50 = 69 \div 5$	13
b.	289 ÷ 69	10	$750 \div 30 = 75 \div 3$	25
c.	64 ÷ 21	10	$60 \div 20 = 6 \div 2$	3

2. Estimate the quotient by rounding off the numbers to the nearest tens, Ognore the remainders, if any:

a. $63 \div 18$ is rounded off to the nearest 10, $60 \div 20 = 6 \div 2 = 3$

So, estimated quotient is 3.

- b. 178 ÷ 30 is rounded off to the nearest 10, 180 ÷ 30 = 18 ÷ 3 = 6.
 So, estimated quotient is 6.
- c. $575 \div 58$ is rounded off to the nearest 10, $560 \div 60 = 56 \div 6 = 9$ So, estimated quotient is **9**.
- d. $315 \div 51$ is rounded off to the nearest 10, $320 \div 50 = 32 \div 5 = 6$. So, estimated quotient is **6**.
- e. 491 ÷ 24 is rounded off to the nearest 10,
 490 20 = 49 ÷ 2 = 24
 So, estimated quotient is 24.
- f. $251 \div 22$ is rounded off to the nearest 10, $250 \div 20 = 25 \div 2 = 12$ So, estimated quotient is **12**.
- g. $9125 \div 73$ is rounded off to the nearest 10. $9130 \div 70 = 913 \div 7 = 130$ So, estimated quotient is **130**.
- h. $1012 \div 15$ is rounded off to the nearest 10 $1010 \div 20 = 101 \div 2 = 50$ So, estimated quotient is **50**.

Hots

Number of packets = 9

Number of toffees in each packet = 50

Total number of toffees = $9 \times 50 = 450$ toffees.

6 toffees are packed in 1 box.

450 toffees are packed in $450 \div 6 = 75$ boxes.

So, shopkeeper will get 75 boxes.

Exercise 5.6

Exercise 5.6	
Solve these story sums. Ans. 1. Earnings of 8 days = ₹ 9600 ∴ Earning of 1 days = ₹ 9600 ÷ 8 = ₹ 1200 ∴ Earnings of 30 days = ₹ 1200 × 30 = ₹ 36000 So, saurave will earn ₹ 36000 in 30 days.	$ \begin{array}{r} 1200 \\ 8)9600 \\ -8 \\ \hline 16 \\ -16 \\ 0 \\ -00 \\ \hline 0 \\ 0 \end{array} $
 2. Cost of 23 books = ₹ 2875 ∴ Cost of 1 book = ₹ 2875 ÷ 23 = ₹ 125 So, the cost of 1 book is ₹ 125. 	$ \begin{array}{r} 125 \\ 23)2875 \\ -23 \\ \hline 57 \\ -46 \\ \hline 115 \\ -115 \\ \hline 0 \end{array} $
3. Total number of saplings $= 225$	25_

- 3. Total number of saplings = 225 Number of row = 9 \therefore Number of saplings in each row = 225 \div 9 = 25 So there were 25 saplings planted in each row.

 25
 9) 225
 45
 -18
- 4. Total numbers of crayons = 6385Number of children = 51Each child gets crayons = $6385 \div 51$ Q = 125 and R = 10So, each child get 125 crayons and 10 crayons are left over. $\frac{125}{51)6385}$ $\frac{-51}{128}$ -102 $\frac{265}{265}$

- 6. Total number of cakes produced = 7050 Number of days = 30 Number of cakes are produced in a day = 7050 ÷ 30 = 235 So, 235 cakes are produced in a day.
- $\begin{array}{r}
 -60 \\
 \hline
 105 \\
 -90 \\
 \hline
 150 \\
 -150 \\
 \hline
 0
 \end{array}$
- 7. Total length of rope = 3825 cm.
 Measurement of each piece = 35 cm
 ∴ Number of pieces can be cut = 3825 ÷ 35
 Q = 109, R = 10
 So, 109 pieces can be cut and 10 cm rope will be left over.
- -35 -315 -10

35)3825

109

Exercise 5.7

- The cost of 20 chocolates = ₹ 360
 ∴ The cost of 1 chocolates = ₹ 360 ÷ 20 = ₹ 18
 ∴ The cost of 23 chocolates = ₹ 18 × 23 = ₹ 414
 So, ₹ 414 will be the cost of 23 chocolates.
- 2. 1 year = 12 months
 The rent of 12 months = ₹ 48120
 ∴ The rent of 1 month = ₹ 48120 ÷ 12 = ₹ 4010
 ∴ The rent of 7 months = ₹ 4010 × 7 = ₹ 28070
 So, ₹ 28070 will have to be paid as the rent of the building.
- $\begin{array}{r}
 4010 \\
 23)48120 \\
 -\underline{48} \\
 12 \\
 -\underline{12} \\
 00 \\
 -\underline{0} \\
 0
 \end{array}$
- 3. 1 dozen = 12 The cost of 12 bananas = ₹ 300 The cost of 1 banana = ₹ 300 ÷ 12 = ₹ 25 ∴ The cost of 14 bananas = ₹ 25 × 14 = ₹ 350 So, the cost of 14 bananas is ₹ 350
- $\begin{array}{r}
 23 \\
 \hline
 12)300 \\
 -24 \\
 \hline
 60 \\
 -60 \\
 \hline
 0
 \end{array}$

- 4. The cost of 5 litres of juice = ₹ 270 ∴ The cost of 1 litre of juice = ₹ 270 ÷ 5 = ₹ 54
 - ∴ The cost of 9 litres of juice = ₹ $54 \times 9 = ₹ 486$
 - So, the cost of 9 litres of juice is ₹ 486.
- 5) 270 25 20 - 20 0

590

16

48

288

288 0

5)2950

- 5. The cost of 12 m ribbon = ₹ 48
 - \therefore The cost of 1 m ribbon = $\mathbf{\xi} 48 \div 12 = \mathbf{\xi} 4$
 - \therefore The cost of 11 m ribbon = $\mathbf{\xi} 4 \times 11 = \mathbf{\xi} 44$ So, the cost of 11 m ribbon is ₹ 44.
- 6. The cost of 5 purse = ₹ 2950
 - ∴ The cost of 1 purse = ₹ 2950 ÷ 5 = ₹ 590
 - ∴ The cost of 9 purses = ₹ 590 × 9 = ₹ 5310
 - So, the cost of 9 purses is $\mathbf{\xi}$ 5310. 45 00 0
- 7. 2 weeks = 14 daysAnant can make in 3 days = 57 baskets
 - \therefore Anant can make in 1 day = $57 \div 3 = 19$ baskets
 - \therefore Anant can make in 14 days = $19 \times 14 = 266$ baskets So, Anant can make 266 baskets in 2 weeks
- 8. Selling price of 48 kg mangoes = ₹ 768
 - \therefore Selling price of 1 kg mango = $\mathbf{\xi}$ 768 \div 48 = $\mathbf{\xi}$ 16
 - ∴ Selling price of 4 kg mangoes = ₹ $16 \times 4 = ₹ 64$
 - So, fruit vendor sold 4 kg mangoes at ₹ 64.
- 9. Total distributed kerosene = 369 litres Number of card holders = 41
 - Each card holder will get kerosene = $369 \div 41$
 - = 9 litres \therefore 6 card holders will get kerosene = 9×6
 - = 54 litres.
 - .. So 6 card holders will get 54 litres kerosene.

10. Selling price of 3 mixers = ₹ 14625
Selling price of 1 mixer = ₹ 14625 ÷ 3 = ₹ 4875
₹ Selling price of 5 mixers = ₹ 4875 × 5 = ₹ 24375
So, ₹ 24375 is the cost of 5 mixers.
$$\frac{4875}{3}14625$$

$$-12$$

$$\frac{26}{-24}$$

$$-21$$
15

∴ The cost of 1 jean
$$< 3045 × 15 × 205$$

∴ The cost of 5 jeans = ₹ 203 × 5 = ₹ 1015
So, ₹ 1015 will be the cost of 5 jeans.

$$\begin{array}{r}
 203 \\
 15)3045 \\
 -30 \\
 \hline
 45 \\
 -45 \\
 \hline
 0
 \end{array}$$

4875

12. 3 week = 21 days

In 7 days are stitched = 21 shirts

In 1 day are stitched = $21 \div 7 = 3$ shirts

In 21 days are stitched = $3 \times 21 = 63$ shirts.

So, the cost of 7 packets of chips is \ge 336.

240 40

40 0

Multiple Choice Questions

Tick (✓) the correct choice:

2. a.
$$Q = 92$$
, $R = 567$

Factors and Multiples

Look Back

Colour the circles which are divisible by numbers given in words.

- Ans. 1. four
- 8
- 12
- 14
- 16
- 18
- 20

- 2. six
- 18
- 20
- 24
- 26
- 28
- 30

3.	nine	27	36	46	56	63	90
4.	twelve	26	36	48	72	94	108
5	fifteen	15	35	45	60	90	100

Exercise 6.1

1. Find the first five multiples of the following:

a.	5,	5,	10,	15,	20,	25
b.	10,	10,	20,	30,	40,	50
c.	8,	8,	16,	24,	32,	40
d.	11,	11,	22,	33,	44,	55
e.	14,	14,	28,	42,	56 ,	70

2. Write the following multiples:

a.	36	b.	28	c.	72	d.	65
e.	77	f.	90				

3. Write as directed below:

a.	7, 14, 21, 28	b.	12, 16, 20
c.	81, 90	d.	42, 48, 54

e. 2, 4, 6, 8, 10

4. List the first 10 multiples of the following numbers. Find the common multiples and write the LCM also:

a. First ten multiples

$$2 \rightarrow 2, 4, 6, 8, 10, 12, 14, 16, 18, 20.$$

 $3 \rightarrow 3, 6, 9, 12, 15, 18, 21, 24, 27, 30.$
Common multiples = **6, 12, 18**.

LCM = 6

b. 4 and 5

First ten multiples

$$4 \rightarrow 4, 8, 12, 16, 20, 24, 28, 32, 36, 40.$$

$$5 \rightarrow 5, 10, 15, 20, 25, 30, 35, 40, 45, 50.$$

Common multiples = 20, 40.

$$LCM = 20$$

c. 8 and 10

First ten multiples

$$8 \rightarrow 8, 16, 24, 32, 40, 48, 56, 64, 72, 80.$$

$$10 \rightarrow 10, 20, 30, 40, 50, 60, 70, 80, 90, 100.$$

Common multiples = 40, 80.

LCM = 40

d. 9 and 12

First ten multiples

$$9 \rightarrow 9, 18, 27, 36, 45, 54, 63, 72, 81, 90.$$

$$12 \rightarrow 12, 24, 36, 48, 60, 72, 84, 96, 108, 120.$$

Common multiples = 36, 72.

LCM = 36

e. 2 and 6

First ten multiples

$$2 \rightarrow 2, 4, 6, 8, 10, 12, 14, 16, 18, 20.$$

$$6 \rightarrow 6$$
, (12), (18), 24, 30, 36, 42, 48, 54, 60.

Common multiples = 6, 12, 18

LCM = 6

f. 5 and 10

First ten multiples

$$5 \rightarrow 5, (0), 15, (20), 25, (30), 35, 40, 45, (50)$$

$$10 \rightarrow (0, 20, 30, 40, 50, 60, 70, 80, 90, 100.$$

Common multiples = 10, 20, 30, 40, 50.

LCM = 10

g. 2, 3 and 6

First ten multiples

$$2 \rightarrow 2, 4, 6, 8, 10, 12, 14, 16, 18, 20.$$

$$3 \rightarrow 3, 6, 9, 12, 15, 18, 21, 24, 27, 30.$$

$$6 \rightarrow (6), (12), (18), 24, 30, 36, 42, 48, 54, 60.$$

Common multiples = 6, 12, 18

LCM = 6

h. 4, 6 and 12

First ten multiples

$$4 \rightarrow 4, 8, (12), 16, 20, (24), 28, 32, (36), 40.$$

$$6 \rightarrow 6, 12, 18, 24, 30, 36, 42, 48, 54, 60.$$

 $12 \rightarrow 12, 24, 36, 48, 60, 72, 84, 96, 108, 120.$

Common multiples = 12, 24, 36

LCM = 12

Hots

LCM of 2 and 5 = 10

Next 5 common multiples = 20, 30, 40, 50, 60.

Exercise 6.2

- 1. Find factors of the following using multiplication :
 - a. $1 \times 16 = 16$

$$2 \times 8 = 16$$

$$4 \times 4 = 16$$

Thus, factors of 16 are 1, 2, 7 and 14.

b.
$$1 \times 14 = 14$$

$$2 \times 7 = 14$$

Thus, factors of 16 are 1, 2, 7 and 14.

c.
$$1 \times 54 = 54$$

$$2 \times 27 = 54$$

$$3 \times 18 = 54$$

$$6 \times 9 = 54$$

Thus, factors of 54 are = 1, 2, 3, 6, 3, 18, 27 and 54.

d.
$$1 \times 25 = 25$$

$$5 \times 5 = 25$$

Thus, factors of 12 are 1, 2, 3, 4, 6 and 12.

e.
$$1 \times 12$$

$$2 \times 6 = 12$$

$$3 \times 4 = 12$$

Thus, factors of 12 are 1, 2, 3, 4, 6 and 12.

2. Find factors of the following using division.

a.
$$39 \div 1 = 39$$

$$39 \div 3 = 13$$

$$39 \div 13 = 3$$

$$39 \div 39 = 1$$

Thus, factors of 39 are, 1, 3, 13 and 39.

b.
$$18 \div 1 = 18$$

 $18 \div 2 = 9$

$$18 \div 6 = 3$$

 $18 \div 9 = 2$

$$18 \div 3 = 6$$

$$18 \div 18 = 1$$

Thus, factors of 18 are 1, 2, 3, 6 and 9 and 18.

c.
$$35 \div 1 = 35$$

$$35 \div 5 = 7$$

$$35 \div 7 = 5$$

$$35 \div 35 = 1$$

Thus, factors of 35 are 1, 5, 7 and 35.

d.
$$56 \div 1 = 56$$

$$56 \div 8 = 7$$

 $56 \div 14 = 4$

$$56 \div 2 = 28$$

 $56 \div 4 = 14$

$$56 \div 28 = 2$$

$$56 \div 7 = 8$$

$$56 \div 56 = 1$$

Thus, factors of 56 are 1, 2, 4, 7, 8, 14, 28 and 56.

e.
$$42$$

 $42 \div 1 = 42$
 $42 \div 2 = 21$
 $42 \div 3 = 14$
 $42 \div 6 = 7$
 $42 \div 41 = 1$

Thus, factors of 42 are 1, 2, 3, 6, 7, 14, 21 and 42.

3. Answer the following.

a.
$$\frac{4}{12)48}$$
 \therefore 48 is exactly divisible by 12 $\frac{-48}{0}$ \therefore 12 is a factor of 48.

b.
$$\frac{8}{7)56}$$
 $\frac{-56}{0}$
56 is exactly divisible by 7. So, 7 is a factor of 56.

c.
$$\frac{7}{6)42}$$
 42 is exactly divisible by 6. $\frac{-42}{0}$ So, 6 is a factor of 42.

d.
$$\frac{4}{8)35}$$
 35 is exactly divisible by 8. $\frac{-32}{0}$ So, 8 is a factor of 35.

4. Write all the factors of the numbers in each pair. Then find the common factors.

- a. Factors of 22: 1, 2, 11, 20 Factors of 4: 1, 2, 4 Common factor of 22 and 4 are 1, 2.
- b. Factors of 21:1,3,7,21 Factors of 14:1,2,7,14 Common factor of 21 and 14 are 1,7.
- c. Factors of 6: 1, 2, 3, 6 Factors of 16: 1, 2, 4, 8, 16 Common factor of 6 and 16 are 1, 2.
- d. Factors of 20: 1, 2, 4, 5, 10, 20. Factors of 18: 1, 2, 3, 6, 9, 18. Common factor of 20 and 18 are 1, 2.

- e. Factors of 13 : 1, 13. Factors of 17 : 1, 17
 - Common factor of 13 and 17 is 1.
- f. Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30. Factors of 45: 1, 3, 5, 9, 15, 45.
- Common factor of 30 and 45 are 1, 3, 5, 15. g. Factors of 10: 1, 2, 5, 10.
- Factors of 25 : 1, 5, 25 Common factor of 10 and 25 are **1, 5**.
- h. Factors of 27: 1, 3, 9, 27
 Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24.
 Common factor of 27 and 24 are 1, 3.

5. Find the HCF of the following:

- a. 4 and 6
 - Factors of 4 = 1, 2, 4
 - Factors of 6 = 1, 2, 3, 6Common factors = 1, 2
 - HCF = 2
- HCF = 2 b. 9 and 15
 - Factors of 9 = 1, 3, 9.
 - Factors of 15 = 1, 3, 5, 15. Common factors = 1, 3.
 - HCF = 3
- c. 30 and 40
- Factors of 30 = 1, 2, 3, 5, 6, 10, 15, 30.
 - Factors of 40 = 1, 2, 4, 5, 8, 10, 20, 40.
 - Common factors = 1, 2, 5, 10.
 - HCF = 10
- d. 16 and 20 Factors of 16 = 1, 2, 4, 8, 16.
 - Factors of 20 = 1, 2, 4, 5, 10, 20.
 - Common factors = 1, 2, 4.
 - HCF = 4
- e. 6, 12 and 24
- Factors of 6 = 1, 2, 3, 6.
 - Factors of 12 = 1, 2, 3, 4, 6, 12.
 - Factors of 24 = 1, 2, 3, 4, 6, 8, 12, 24.
 - Common factors = 1, 2, 3, 6.
 - HCF = 6
- f. 25, 45 and 50

Factors of 25 = 1, 5, 25

Factors of 45 = 1, 3, 5, 9, 15, 45.

Factors of 50 = 1, 2, 5, 10, 25, 50.

Common factors = 1, 5.

HCF = 5

6. Say whether the following are True or False.

- True h. False d. False c. True
- e. True f False

Exercise 6.3

Colour the square with even numbers green and with odd 1. numbers red.

Even number: 724, 910, 84, 68, 20, 4, 92, 176, 216, 16, 10

and 630.

Odd numbers: 683, 49, 65, 3, 29, 285, 981, 347 and 489.

- Write the following: 2.
 - 999 d. 998 b. c. 1
- 3. Check whether the number is prime or composite by listing its factors:
 - a. 15

Factors of 15 = 1, 3, 5, 15.

So, 15 is a composite number.

b. 5

Factors of 5 = 1, 5.

So, 5 is a composite number.

c. 52

Factors of 52 = 1, 2, 4, 13, 26, 52.

So, 52 is a composite number.

d. 60

Factors of 60 = 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60.

So, 60 is a composite number.

e. 67

Factors of 67 = 1, 67.

So, 67 is a composite number.

f.

Factors of 89 = 1, 89.

So, 89 is a composite number.

g. 27

Factors of 27 = 1, 3, 9, 27.

So, 27 is a composite number.

h. 31

Factors of 31 = 1, 31.

So, 31 is a composite number.

i. 39

Factors of 39 = 1, 3, 13, 39.

So, 39 is a composite number.

j. 99

Factors of 99 = 1, 3, 9, 11, 33, 99.

So, 99 is a composite number.

k. 95

Factors of 95 = 1, 5, 19, 95.

So, 95 is a composite number.

1.

Factors of 12 = 1, 2, 3, 4, 6, 12.

So, 12 is a composite number.

4. Fill in the blanks:

- The smallest prime number is **2**.
- b. The smallest composite number is 4.
- c. There are **four** prime numbers between 1 and 10.
- d. The number 1 is a **unique** number.
- e. 2 is the only even prime number.
- f. Composite numbers have three or more factors.

Mental Maths

Fill in the blanks:

1.



2.



3.



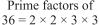
Exercise 6.4

1. Find prime factors of given numbers.

a.



Prime factors of

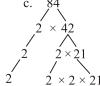


b.



Prime factors of

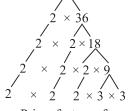
$$27 = 3 \times 3 \times 3.$$

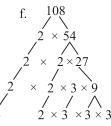


Prime factors of

 $84 = 2 \times 2 \times 5 \times 7$



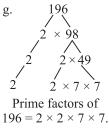


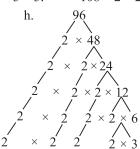


Prime factors of
$$85 = 5 \times 17$$
.

Prime factors of
$$27 = 3 \times 3 \times 3$$
.

Prime factors of
$$108 = 2 \times 2 \times 3 \times 3 \times 3$$
.





Prime factors of $96 = 2 \times 2 \times 2 \times 2 \times 3$

2. Determine the prime factorization of the following numbers by division method:

Prime factors of
$$30 = 2 \times 3 \times 5$$

Prime factors of
$$136 = 2 \times 2 \times 2 \times 17$$

h.

Prime factors of
$$172 = 2 \times 2 \times 43$$

Prime factors of
$$100 = 2 \times 2 \times 5 \times 5$$

Prime factors of
$$125 = 5 \times 5 \times 5$$
 Mathematics-4 114

Exercise 6.5

1. In each column put a (\checkmark) if the number at left is divisible by the number at the top of the column. Otherwise pet (X).

	Numbers	2	3	4	5	10
a.	218	1	Х	Х	Х	Х
b.	240	1	1	1	1	1
c.	2586	1	1	Х	Х	Х
d.	3153	Х	1	Х	Х	Х
e.	98664	1	1	1	Х	Х

2. Fill one smallest digit in each of the boxes to make the number divisible by 9.

a. 8

b. 2

c. 0

d. 0

Multiple Choice Questions

Tick (✓) the correct choice:

1. c. unique 2

2. a. 2

3. b. 693

4. a. 56

Fun with Maths

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	08	29	30
31	32	33	324	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

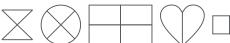
The prime numbers between 1 and 100 are 2, 3, 5, 7, 11, 13, 17, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97

Fractions

Look Back

1. Colour in yellow the shapes that show two equal parts and in green the shapes that show four equal parts.

Ans.



Yellow Green Green



Yellow

Yellow

Colour: 2.

a. $\frac{1}{3}$ of 12 pencils



c. $\frac{1}{3}$ of 15 brinjal



b. $\frac{1}{4}$ of 8 mangoes

Green



d. $\frac{1}{4}$ of 16 kites



Mental Maths

Solve the riddles given below.

- 1. $\frac{1}{7}$ 2. $\frac{1}{30}$ 3. $\frac{1}{12}$ 4. $\frac{1}{12}$ 5. $\frac{1}{60}$

Exercise 7.1

Complete the following: 1.

Ans. a. $\frac{8}{9} = \frac{24}{27} = \frac{56}{63} = \frac{72}{81}$

b. $\frac{11}{50} = \frac{44}{200} = \frac{330}{1500} = \frac{88}{400}$

c. $\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{9}{45}$ d. $\frac{6}{17} = \frac{12}{34} = \frac{30}{85} = \frac{42}{119}$ [Mathematics-4] 116

e.
$$\frac{7}{11} = \frac{14}{22} = \frac{35}{55} = \frac{56}{88}$$

f.
$$\frac{1}{6} = \frac{2}{12} = \frac{7}{42} = \frac{11}{66}$$

2. Write the first three equivalent fraction of the following:

a. First three equivalent fractions of

$$\frac{4}{11} = \frac{8}{22}$$
, $\frac{12}{33}$, $\frac{16}{44}$

First three equivalent fractions of

$$\frac{1}{9} = \frac{2}{18}$$
, $\frac{3}{27}$, $\frac{4}{36}$

c. First three equivalent fractions of

$$\frac{5}{6} = \frac{10}{12}$$
, $\frac{15}{18}$, $\frac{20}{24}$

d. First three equivalent fractions of

$$\frac{7}{10} = \frac{14}{20}$$
, $\frac{21}{30}$, $\frac{28}{40}$

e. First three equivalent fractions of

$$\frac{3}{5} = \frac{6}{10}, \frac{9}{15}, \frac{12}{20}$$

f. First three equivalent fractions of

$$\frac{2}{7} = \frac{4}{14}$$
, $\frac{6}{21}$, $\frac{8}{28}$

Write an equivalent fraction of $\frac{4}{5}$ with : 3.

a.
$$\frac{4}{5} = \frac{4 \times 3}{5 \times 3} = \frac{12}{15}$$

a.
$$\frac{4}{5} = \frac{4 \times 3}{5 \times 3} = \frac{12}{15}$$
 b. $\frac{4}{5} = \frac{4 \times 4}{5 \times 4} = \frac{16}{20}$

c.
$$\frac{4}{5} = \frac{4 \times 9}{5 \times 9} = \frac{36}{45}$$

- Tick (\checkmark) the pair of fractions hat are equivalent : 4.

 - a. 🗸 b. 🗸
- e. 🗸

Exercise 7.2

- Fill in the Equivalent fractions:
- **Ans.** a. $\frac{15 \div 5}{10 \div 5} = \frac{3}{2}$ b. $\frac{12 \div 4}{16 \div 4} = \frac{3}{4}$ c. $\frac{8 \div 8}{16 \div 8} = \frac{1}{2}$

- d. $\frac{6 \div 2}{10 \div 2} = \frac{3}{5}$ e. $\frac{10 \div 2}{16 \div 2} = \frac{5}{8}$ f. $\frac{7 \div 7}{21 \div 7} = \frac{1}{3}$

2. Reduce the following fractions to the lowest terms.

a. Common factor of 30 and 45 = 15

$$\therefore \frac{30}{45} = \frac{30 \div 19}{45 \div 15} = \frac{2}{3}$$
 (lowest term)

b. Common factor of 49 and 63 = 7

$$\therefore \frac{49}{63} = \frac{49 \div 7}{63 \div 7} = \frac{7}{9}$$
 (lowest term)

c. Common factor of 75 and 80 = 5

$$\therefore \frac{75}{80} = \frac{75 \div 5}{80 \div 5} = \frac{15}{16}$$
 (lowest term)

d. Common factor of 25 and 40 = 5

$$\therefore \frac{25}{40} = \frac{25 \div 5}{40 \div 5} = \frac{5}{8}$$
 (lowest term)

e Common factor of 36 and 81 = 9

$$\therefore \frac{36}{81} = \frac{36 \div 9}{81 \div 9} = \frac{4}{9}$$
 (lowest term)

f. Common factor of 16 and 18 = 2

$$\therefore \frac{16}{18} = \frac{16 \div 2}{18 \div 2} = \frac{8}{9}$$
 (lowest term)

g. Common factor of 85 and 100 = 5

$$\therefore \frac{85}{100} = \frac{85 \div 5}{100 \div 5} = \frac{17}{20}$$
 (lowest term)

h. Common factor of 24 and 32 = 8

$$\therefore \frac{24}{32} = \frac{24 \div 8}{32 \div 8} = \frac{3}{4}$$
 (lowest term)

i. Common factor of 22 and 121 = 11

$$\therefore \frac{22}{121} = \frac{22 \div 11}{121 \div 11} = \frac{2}{11}$$
 (lowest term)

j. Common factor of 42 and 48 = 6

$$\therefore \frac{42}{48} = \frac{42 \div 6}{48 \div 6} = \frac{7}{8}$$
 (lowest term)

k. Common factor of 6 and 24 = 15

$$\therefore \frac{6}{24} = \frac{6 \div 6}{24 \div 6} = \frac{1}{4}$$
 (lowest term)

1. Common factor of 15 and 30 = 15

$$\therefore \frac{15}{30} = \frac{15 \div 15}{30 \div 15} = \frac{1}{2}$$
 (lowest term)

Exercise 7.3

Classify the fractions as proper or improper fractions. 1.

- a. $\frac{6}{9}$ proper fraction
- b. $\frac{1}{9}$ Improper fraction d. $\frac{6}{7}$ proper fraction
- c. $\frac{15}{4}$ proper fraction
- e. $\frac{5}{13}$ proper fraction f. $\frac{4}{5}$ proper fraction
- g. $\frac{48}{40}$ proper fraction h. $\frac{17}{5}$ Improper fraction

i. $\frac{8}{5}$ Improper fraction

j. $\frac{18}{13}$ Improper fraction

Convert the following improper fractions into mixed fractions. 2.

a.
$$\frac{80}{7} = 11\frac{3}{7}$$

b.
$$\frac{44}{5} = 8 \frac{4}{5}$$
 c. $\frac{15}{7} = 2 \frac{1}{7}$

c.
$$\frac{15}{7} = 2\frac{1}{7}$$

$$\frac{-7}{10}$$

d.
$$\frac{35}{6} = 5\frac{5}{6}$$

e.
$$\frac{18}{4} = 4\frac{2}{4}$$

$$\frac{-7}{3}$$

f.
$$\frac{25}{6} = 4\frac{1}{6}$$

g.
$$\frac{8}{3} = 2\frac{2}{3}$$

j.
$$\frac{54}{5} = 10\frac{4}{5}$$

h. $\frac{17}{2} = 8\frac{1}{2}$ i. $\frac{92}{11} = 8\frac{4}{11}$

Convert the following mixed fractions into improper 3. fractions.

a.
$$4\frac{1}{2} = \frac{4 \times 2 + 1}{2} = \frac{9}{2}$$

b.
$$3\frac{3}{5} = \frac{3 \times 5 + 3}{5} = \frac{18}{5}$$

c.
$$3\frac{3}{7} = \frac{3 \times 7 + 3}{7} = \frac{24}{7}$$

d.
$$6\frac{5}{8} = \frac{8 \times 6 + 5}{8} = \frac{53}{8}$$

e.
$$11\frac{2}{3} = \frac{11 \times 3 + 2}{3} = \frac{35}{4}$$

f.
$$4\frac{7}{9} = \frac{4 \times 9 + 7}{9} = \frac{43}{9}$$

g.
$$8\frac{3}{4} = \frac{8 \times 4 + 3}{4} = \frac{35}{4}$$

h.
$$2\frac{2}{5} = \frac{2 \times 5 + 2}{5} = \frac{12}{5}$$

i.
$$2\frac{2}{7} = \frac{2 \times 7 + 2}{7} = \frac{16}{7}$$

j.
$$2\frac{1}{9} = \frac{2 \times 9 + 1}{9} = \frac{19}{9}$$

Exercise 7.4

Put the correct sign <, > or = in the box. 1.

h.

Tick (\checkmark) the greatest and cross (X) the smallest fraction in the 2. following.

$$\frac{9}{3}, \frac{7}{3}, \frac{2}{3}$$

a.
$$\frac{5}{3}, \frac{9}{3}, \frac{7}{3}, \frac{2}{3}$$
 b. $\frac{5}{9}, \frac{7}{9}, \frac{3}{7}, \frac{12}{7}$ c. $2\frac{1}{7}, 3\frac{2}{7}, 4\frac{1}{7}, 1\frac{2}{7}$

$$\checkmark$$
 \checkmark \checkmark

d.
$$9\frac{2}{3}$$
, $7\frac{5}{6}$, $4\frac{1}{3}$, $3\frac{7}{8}$ e. $9\frac{2}{3}$, $7\frac{5}{6}$, $4\frac{1}{3}$, $3\frac{7}{8}$ f. $3\frac{1}{4}$, $8\frac{3}{4}$, $3\frac{4}{5}$, $6\frac{2}{5}$

$$3\frac{1}{4}, 8\frac{3}{4}, 3\frac{4}{5}, 6\frac{2}{5}$$

3. Arrange in ascending order.

$$\frac{5}{11}, \frac{4}{11}, A$$

a.
$$\frac{7}{11}$$
, $\frac{2}{11}$, $\frac{5}{11}$, $\frac{4}{11}$, Ascending order $\frac{2}{11} < \frac{4}{11} < \frac{5}{11} < \frac{7}{11}$

b. $\frac{3}{9}, \frac{8}{9}, \frac{5}{7}, \frac{9}{7} = \frac{3 \times 7}{9 \times 7}, \frac{8 \times 7}{9 \times 7}, \frac{5 \times 9}{7 \times 9}, \frac{9 \times 9}{7 \times 9} = \frac{21}{63}, \frac{56}{63}, \frac{45}{63}, \frac{81}{63}$

In ascending order, $\frac{21}{63} < \frac{45}{63} < \frac{56}{63} < \frac{81}{63} = \frac{3}{9} < \frac{5}{7} < \frac{8}{9} < \frac{9}{7}$

$$<\frac{81}{63} = \frac{3}{9} < \frac{5}{7}$$

c.
$$6\frac{2}{13}$$
, $3\frac{1}{13}$, $5\frac{5}{13}$, $=2\frac{4}{13}$

In ascending order, $2\frac{4}{13} < 3\frac{1}{13} < 5\frac{5}{13} < 6\frac{2}{13}$

$$= 2\frac{4}{13} < 3\frac{1}{13} < 5\frac{5}{13} < 6\frac{2}{13}$$

d.
$$2\frac{6}{15}$$
, $4\frac{11}{15}$, $7\frac{12}{5}$, $7\frac{3}{5} = \frac{36}{15} < \frac{71}{15} < \frac{47}{5} < \frac{38}{5}$

$$\frac{36}{15}, \frac{71}{15}, \frac{47 \times 3}{5 \times 3}, \frac{38 \times 3}{5 \times 3} = \frac{30}{15} < \frac{71}{15} < \frac{141}{15} < \frac{114}{15}$$

In ascending order =
$$\frac{36}{15} < \frac{71}{15} < \frac{114}{15} < \frac{141}{15}$$

$$= 2\frac{6}{15} < 4\frac{11}{15} < 7\frac{3}{5} < 7\frac{12}{5}$$

e.
$$7\frac{8}{6}$$
, $7\frac{15}{19}$, $7\frac{13}{19}$, $8\frac{5}{6} = \frac{50}{6} < \frac{148}{19} < \frac{146}{19} < \frac{53}{6}$

$$=\frac{50\times 19}{6\times 19}, \frac{148\times 6}{19\times 6}, \frac{146\times 6}{19\times 6}, \frac{53\times 19}{6\times 19}$$

$$\frac{950}{114}$$
, $\frac{888}{114}$, $\frac{876}{114}$, $\frac{1007}{114}$

In ascending order =
$$\frac{876}{114} < \frac{888}{114} < \frac{950}{114} < \frac{1007}{114}$$

= $7\frac{13}{19} < 7\frac{15}{19} < 7\frac{8}{6} < 8\frac{5}{6}$

f.
$$7\frac{3}{11}, \frac{8}{13}, 2\frac{5}{13}, \frac{9}{11} = \frac{80}{11}, \frac{8}{13}, \frac{31}{13}, \frac{9}{11}$$

$$= \frac{80 \times 13}{11 \times 13}, \frac{8 \times 11}{13 \times 11}, \frac{31 \times 11}{13 \times 11}, \frac{9 \times 13}{11 \times 13} = \frac{1040}{143}, \frac{88}{143}, \frac{341}{143}, \frac{117}{148}$$
In ascending order $= \frac{88}{143} < \frac{117}{143} < \frac{341}{143} < \frac{1040}{143}$

$$= \frac{8}{12} < \frac{9}{11} < 2\frac{5}{12} < 7\frac{3}{11}$$

4. Arrange in descending order.

a.
$$\frac{8}{17}$$
, $\frac{12}{17}$, $\frac{11}{17}$, $\frac{6}{17}$

In descending order, $\frac{12}{17} < \frac{11}{17} < \frac{8}{17} < \frac{6}{17}$

b.
$$\frac{3}{11}$$
, $\frac{4}{9}$, $\frac{1}{9}$, $\frac{2}{11} = \frac{3 \times 9}{11 \times 9}$, $\frac{4 \times 11}{9 \times 11}$, $\frac{1 \times 11}{9 \times 11}$, $\frac{2 \times 8}{11 \times 9}$
= $\frac{27}{99}$, $\frac{44}{99}$, $\frac{11}{99}$, $\frac{18}{99}$

In descending order = $\frac{4}{9} > \frac{3}{11} > \frac{2}{11} > \frac{1}{9}$

c.
$$4\frac{3}{11}, \frac{29}{6}, 3\frac{5}{6}, \frac{9}{11} = \frac{47}{11}, \frac{29}{6}, \frac{23}{6}, \frac{9}{11}$$

= $\frac{47 \times 6}{11 \times 6}, \frac{29 \times 11}{6 \times 11}, \frac{23 \times 11}{6 \times 11}, \frac{9 \times 6}{11 \times 6} = \frac{282}{66}, \frac{319}{66}, \frac{256}{66}, \frac{54}{66}$

In descending order =

$$= \frac{29}{6} < 4\frac{3}{11} < 3\frac{5}{6} < \frac{9}{11}$$

d.
$$2\frac{4}{9}$$
, $5\frac{7}{10}$, $10\frac{7}{9}$, $6\frac{9}{10} = \frac{22}{9}$, $<\frac{57}{10}$, $\frac{97}{9}$, $\frac{69}{10}$
= $\frac{22 \times 10}{9 \times 10}$, $\frac{57 \times 9}{10 \times 9}$, $\frac{97 \times 10}{9 \times 10}$, $\frac{69 \times 9}{10 \times 9} = \frac{220}{90}$, $\frac{513}{90}$, $\frac{970}{90}$, $\frac{621}{90}$

In descending order =
$$\frac{970}{90} > \frac{621}{90} > \frac{513}{90} > \frac{220}{90}$$

= $10\frac{7}{9} > 6\frac{9}{10} > 5\frac{7}{10} > 2\frac{4}{9}$

e.
$$3\frac{7}{12}$$
, $7\frac{2}{12}$, $5\frac{5}{12}$, $4\frac{11}{12} = \frac{43}{12}$, $\frac{86}{12}$, $\frac{65}{12}$, $\frac{59}{12}$
In descending order = $\frac{86}{12}$, $>\frac{65}{12}$, $>\frac{59}{12}$, $>\frac{43}{12}$
= $7\frac{2}{12} > 5\frac{5}{12} > 4\frac{11}{12} > 3\frac{7}{12}$

f.
$$9\frac{5}{7}$$
, $9\frac{7}{11}$, $9\frac{10}{7}$, $9\frac{8}{7} = \frac{68}{7}$, $\frac{10}{11}$, $\frac{73}{7}$, $\frac{71}{7}$

$$= \frac{68 \times 11}{7 \times 11} > \frac{106 \times 7}{11 \times 7} > \frac{73 \times 11}{7 \times 11} > \frac{71 \times 11}{7 \times 11}$$

$$= \frac{748}{77}, \frac{742}{77}, \frac{803}{77}, \frac{781}{77}$$

In descending order
$$\frac{803}{77} > \frac{781}{77} > \frac{748}{77} > \frac{742}{71}$$

= $9\frac{10}{7} > 9\frac{8}{7} > 9\frac{5}{7} > 9\frac{7}{11}$

Exercise 7.5

1. Find the sum.

a.
$$\frac{4}{11} + \frac{5}{11} = \frac{4+5}{11} = \frac{9}{11}$$

a.
$$\frac{4}{11} + \frac{3}{11} = \frac{4+3}{11} = \frac{3}{11}$$

c.
$$\frac{1}{12} + \frac{7}{12} = \frac{1+7}{12} = \frac{8}{12}$$

e. $\frac{13}{10} + \frac{5}{10} = \frac{13+5}{12} = \frac{18}{10}$

g.
$$\frac{1}{17} + \frac{3}{17} = \frac{1+3}{17} = \frac{4}{17}$$

i.
$$\frac{1}{10} + \frac{3}{10} + \frac{2}{10} = \frac{1+3+2}{10} = \frac{6}{10}$$
 j. $\frac{7}{16} + \frac{5}{16} = \frac{7+5}{16} = \frac{12}{16}$

k.
$$\frac{5}{14} + \frac{7}{14} + \frac{1}{14} = \frac{5+7+1}{14} = \frac{13}{14}$$
 l. $\frac{3}{7} + \frac{6}{7} + \frac{2}{7} = \frac{3+6+2}{7}$

b.
$$\frac{5}{9} + \frac{3}{9} = \frac{5+3}{9} = \frac{8}{9}$$

d.
$$\frac{5}{21} + \frac{10}{21} = \frac{5+10}{21} = \frac{15}{21}$$

f.
$$\frac{3}{10} + \frac{4}{10} = \frac{3+4}{10} = \frac{7}{10}$$

h.
$$\frac{7}{16} + \frac{5}{16} = \frac{7+5}{16} = \frac{12}{16}$$

j.
$$\frac{7}{16} + \frac{5}{16} = \frac{7+5}{16} = \frac{12}{16}$$

1.
$$\frac{3}{7} + \frac{6}{7} + \frac{2}{7} = \frac{3+6+2}{7}$$

= $\frac{11}{7}$

2. Add the following:

a. LCM of 9 and = 72

$$\therefore \frac{1}{9} + \frac{1}{8} = \frac{1 \times 8}{9 \times 8} + \frac{1 \times 9}{8 \times 9} + \frac{4 \times 4}{9 \times 4} = \frac{8}{12} + \frac{9}{72} = \frac{8 \times 9}{72} = \frac{17}{72}$$

b. LCM of 3 and 6 = 6

$$\therefore \frac{1}{3} + \frac{1}{6} = \frac{1 \times 2}{3 \times 2} + \frac{1 \times 1}{6 \times 1} = \frac{2}{6} + \frac{1}{6} + \frac{2+1}{6} = \frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$$

c. LCM of 4 and 9 = 36

$$\therefore \frac{1}{4} + \frac{4}{9} = \frac{1 \times 9}{4 \times 9} + \frac{4 \times 4}{9 \times 4} = \frac{9}{36} + \frac{16}{36} = \frac{9 \times 16}{36} = \frac{25}{36}$$

d. LCM of 2 and 5 = 10

$$\therefore \frac{4}{5} + \frac{1}{2} = \frac{4 \times 2}{5 \times 2} + \frac{1 \times 5}{2 \times 5} = \frac{8}{10} + \frac{5}{10} = \frac{8 \times 5}{10} = \frac{13}{10} = 1\frac{3}{10}$$

e. LCM of 7 and 2 = 14

$$\therefore \frac{15 \times 2}{7 \times 2} + \frac{15 \times 7}{2 \times 7} = \frac{30}{14} + \frac{105}{14} = \frac{30 + 105}{14} = \frac{135}{14} = 9 \frac{9}{14}$$

f. LCM of 3 and 2 = 6

$$\therefore \frac{5 \times 2}{3 \times 2} + \frac{13 \times 3}{2 \times 3} = \frac{10}{6} + \frac{39}{6} = \frac{10 + 39}{6} = \frac{49}{6} = 8\frac{1}{6}$$

g. LCM of 6 and 4 = 12

$$\therefore \frac{25 \times 2}{6 \times 2} + \frac{9 \times 3}{4 \times 3} = \frac{50}{12} + \frac{27}{12} = \frac{50 + 27}{12} = \frac{72}{12} = 6\frac{5}{17}$$

h. LCM of 5 and 3 = 15

$$\therefore \frac{21 \times 3}{5 \times 3} + \frac{13 \times 5}{3 \times 5} = \frac{63}{15} + \frac{65}{15} = \frac{63 + 65}{15} = \frac{128}{15} = 8\frac{8}{15}$$

Exercise 7.6

1. a.
$$\frac{3}{11} - \frac{2}{11} = \frac{3-2}{11} = \frac{1}{11}$$

b.
$$\frac{21}{23} - \frac{10}{23} = \frac{21 - 10}{23} = \frac{11}{28}$$

c.
$$\frac{8}{18} - \frac{3}{18} = \frac{8-3}{18} = \frac{5}{18}$$

d.
$$\frac{5}{17} - \frac{3}{17} = \frac{5-3}{17} = \frac{2}{17}$$

e.
$$\frac{17}{15} - \frac{3}{15} = \frac{17 - 13}{15} = \frac{4}{15}$$

f.
$$\frac{16}{31} - \frac{12}{31} = \frac{16 - 12}{31} = \frac{4}{31}$$

g.
$$\frac{11}{14} - \frac{7}{14} = \frac{11-7}{14} = \frac{4}{14}$$
 h. $\frac{15}{24} - \frac{7}{24} = \frac{15-7}{24} = \frac{8}{24}$

i.
$$2\frac{5}{4} - \frac{1}{4} = \frac{13}{4} - \frac{1}{4} = \frac{13-1}{4} = \frac{12}{4} = \frac{12 \div 4}{4 \div 4} = \frac{3}{1} = 3$$

k.
$$3\frac{4}{5} - 1\frac{2}{5} = \frac{19}{5} - \frac{7}{5} = \frac{19-7}{5} = \frac{12}{5} = 2\frac{2}{5}$$

1.
$$3\frac{3}{5} - 1\frac{4}{5} = \frac{18}{5} - \frac{9}{5} = \frac{18-2}{5} = \frac{9}{5} = 1\frac{4}{5}$$

2. Subtract the following:

a. LCM of 3 and
$$= 21$$

$$\therefore \frac{1}{3} - \frac{2}{7} = \frac{1 \times 7}{3 \times 7} - \frac{2 \times 3}{7 \times 3} = \frac{7}{21} - \frac{6}{21} = \frac{7 - 6}{21} = \frac{1}{21}$$

b. LCM of 2 and
$$6 = 6$$

$$\therefore \frac{1}{2} - \frac{1}{6} = \frac{1 \times 3}{2 \times 3} - \frac{1 \times 1}{6 \times 1} = \frac{3}{6} - \frac{1}{6} = \frac{3 - 1}{6} = \frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{2}$$

c. LCM of 3 and
$$8 = 24$$

$$\therefore \frac{2}{3} - \frac{4}{8} = \frac{2 \times 8}{3 \times 8} - \frac{4 \times 3}{8 \times 3} = \frac{16}{24} - \frac{12}{24} = \frac{16 - 12}{24} = \frac{4}{24} = \frac{4 \div 4}{24 \div 4} = \frac{1}{6}$$

d. LCM of 7 and
$$4 = 28$$

$$\therefore \frac{5}{7} - \frac{1}{4} = \frac{5 \times 4}{7 \times 4} - \frac{1 \times 7}{4 \times 7} = \frac{20}{28} - \frac{7}{28} = \frac{20 - 7}{28} = \frac{13}{28}$$

e. LCM of 2 and
$$4 = 4$$

$$\therefore 3\frac{1}{2} - 1\frac{3}{4} = \frac{7}{2} - \frac{7}{4} = \frac{7 \times 2}{2 \times 2} = \frac{7 \times 1}{4 \times 1} = \frac{14}{4} - \frac{7}{4} = \frac{14 - 7}{4} = \frac{7}{4} = 1\frac{3}{4}$$

f. LCM of 3 and
$$6 = 6$$

$$10\frac{1}{3} - 7\frac{4}{6} = \frac{31}{3} - \frac{46}{6} = \frac{31 \times 2}{3 \times 2} = \frac{46 \times 1}{6 \times 1} = \frac{62}{6} - \frac{46}{6}$$
$$\frac{62 - 46}{6} = \frac{16}{6} = \frac{16 \div 2}{6 \div 2} = \frac{8}{3} = 2\frac{2}{3}$$

g. LCM of 2 and 5 = 10

$$\therefore \ 6\frac{1}{2} - 3\frac{2}{5} = \frac{13}{2} - \frac{17}{5} = \frac{13 \times 5}{2 \times 5} = \frac{17 \times 2}{5 \times 2} = \frac{65}{10} - \frac{34}{10} = \frac{31}{10}$$

h. LCM of 2 and 5 = 10

$$\therefore 9\frac{1}{2} - 8\frac{3}{5} = \frac{19}{2} - \frac{43}{5} = \frac{19 \times 5}{2 \times 5} = \frac{43 \times 2}{5 \times 2} = \frac{95}{10} - \frac{86}{10} = \frac{95 - 86}{10}$$

Exercise 7.7

1. Time taken to complete English homework = $\frac{1}{5}$ hours

Time taken to complete Mathematics home work = $\frac{3}{5}$ hours

Time taken to complete both home work = $\left(\frac{1}{5} + \frac{3}{5}\right) = \frac{1+3}{5} = \frac{4}{5}$ hours

So, Rishi completed his homework in $\frac{4}{5}$ hours.

2. John bought kg.

Sugar was bought by John = $\frac{3}{4}$ kg

Sugar was used = $\frac{1}{4}$ kg

Sugar was left over = $(\frac{3}{4} - \frac{1}{4}) kg = \frac{3-1}{4} kg = \frac{2}{4} kg = \frac{1}{2} kg$

So, $\frac{1}{2}$ kg sugar was left over.

3. Money was spent by Neil on fees = $\frac{1}{3}$ of money

Money was spent on book = $\frac{1}{3}$ of money

Total money was spent = $\left(\frac{1}{3} - \frac{1}{3}\right)$ of money = $\frac{1+1}{3} = \frac{2}{3}$ of money

So, Neil spent $\frac{2}{3}$ of his money in all.

4. Length of Karan ribbon = $\frac{2}{5}$ m

Lengh of Kiran's ribbon = $\frac{1}{5}$ m

More Length of Karna's ribbon than Kiran's ribbon

$$=\left(\frac{2}{5} - \frac{1}{5}\right)m = \frac{2-1}{5} = m.$$

So, Karan bought $\frac{1}{5}$ m of ribbon more than Kiran.

5. Sakshi had =
$$2\frac{1}{5}$$
 kg of rice

She used = $1\frac{3}{5}$ kg of rice

Rice was left =
$$\left(2\frac{1}{5} - 1\frac{3}{5}\right) \text{kg} = \left(\frac{11}{5} - \frac{8}{5}\right) \text{kg}$$

= $\left(\frac{11 - 8}{5}\right) \text{kg} = \frac{3}{5} \text{kg}$

So, $\frac{3}{5}$ kg of rice was left.

6. Vinita ate =
$$\frac{1}{4}$$
 of the cake

Rihamate = $\frac{3}{4}$ of the cake

More cake was eaten by Rihana = $\left(\frac{3}{4} - \frac{1}{4}\right)$ of the cake $=\frac{1}{2}$ of the cake

So, Rihana ate more $\frac{1}{2}$ of the cake than Vinita.

Multiple Choice Questions

Tick (✓) the correct choice:

- **Ans.** 1. a. $\frac{5}{11}$ 2. b. $12\frac{1}{7}$ 3. b. 1 4. c. $\frac{2}{7}$

Decimals

Look Back

Write decimal for the shaded part.

Ans. a.
$$\frac{2}{4} = 0.5$$
 b. $\frac{3}{4} = 0.75$ c. $\frac{3}{8} = 0.375$ d. $\frac{2}{5} = 0.4$

b.
$$\frac{3}{4} = 0$$

$$2. \ \frac{3}{8} = 0.375$$

d.
$$\frac{2}{5} = 0.4$$

Exercise 8.1

1. Write in decimals:

- a. 0.9
- b. 0.3
- 0.6 c.
- d. 0.8

- e. 1.3
- f. 1.6
- g. 1.5
- h. 1.9

- i. 2.7 j. 5.6
- 6.8
- 1. 7.5

- m. 8.8
- n. 7.2
- o. 9.7
- p. 8.7

- f. 37.5
- 27.3

- q. 17.6

t. 38.5

- 2. Make a place value chart and show the following decimals on it:
 - a. $\frac{3}{10}$
- b. $\frac{7}{10}$ c. $\frac{8}{10}$
- d. $\frac{4}{10}$

- e. $\frac{6}{10}$
- f. $\frac{10}{10}$ g. $\frac{2}{10}$
- h. $\frac{9}{10}$

- i. $\frac{9}{10}$ j. $\frac{5}{10}$ k. $\frac{14}{10}$
- 1. $\frac{26}{10}$

- m. $\frac{47}{10}$
- n. $\frac{132}{10}$ o. $\frac{3424}{10}$
- Make a place value chart and show the following decimals on 3. it:

Q. Part	100 Hundreds	10 Tens	1 Ones	Tenths $\frac{1}{10}$
a.	2	7	3	8 or eight-tenth
b.	1	5	6	9 or nine-tenth
c.	3	9	6	7 or seven-tenth
d.	1	7	6	5 or five-tenth
e.	3	9	4	or four-tenth
f.	2	6	1	or one-tenth
g.	1	7	4	or four-tenth
h.	1	3	5	or five-tenth

Exercise 8.2

- Fill in the equivalent fractions (in decimals): 1.
 - a. 1.17
- b. 0.37
- c. 7.14
- d. 0.21

- e. 5.26
- f. 0.06
- 0.04 g.
- h. 4.13

- Write in common fractions: 2.
 - a. $6\frac{73}{100}$
- b. $4\frac{78}{100}$
 - c. $3\frac{17}{100}$
- d. $1\frac{14}{100}$

e.

f.

g.

h.

- 3. Write in decimals.
 - 15.123
- b. 0.213
- c. 7.064
- d. 0.025

- e. 2.013
- f. 0.003
- 0.007 g.
- h. 0.104

- 4. Write in common fractions.
 - a. $93\frac{540}{1000}$ b. $\frac{10}{1000}$
- c. $\frac{234}{1000}$
- d. $8\frac{1}{1000}$

- e. $\frac{56}{1000}$ f. $61\frac{185}{1000}$
- g. $\frac{4}{1000}$
- h. $\frac{876}{1000}$

Exercise 8.3

- 1. Write the place and place value of:
 - a. 5 in 15.171
 - b. 7 in 6.710
 - c. 4 in 5.413
 - d. 8 in 5.813
- Place Place Place

Place

Tenth **Tenth**

Ones

- Place Value 5 Place Value 0.7
- Place Value 0.4
- Place Value 0.8 Tenth
- 2. Fill in the blanks:
 - a. one-tenths
 - b. two-tenths
 - c. one-tenths
- seven-hundredths. seven-hundredths one-hundredths
- three-hundredths.
- three-thousandths. **seven**-thousandths.
- d. one-tenths
- 3. Fill in the boxes:
 - a. $2.673 = 2\frac{6}{10} + \frac{7}{100} + \frac{3}{1000}$ b. $7.321 = 7 + \frac{3}{10} + \frac{2}{100} + \frac{3}{1000}$
 - c. $9.01 = 9 + \frac{1}{100}$
 - e. $8.02 = 8 + \frac{2}{100}$

- d. $6.132 = 6 + \frac{1}{10} + \frac{3}{100} + \frac{2}{1000}$
- f. $8.145 = 8 + \frac{1}{10} + \frac{4}{100} + \frac{5}{1000}$
- 4. Write the standard numeral (short form) in decimals:
 - 7.093
- b. 200.247

328,354

- d. 328.354 g. 8.604
- 13.205 e.

- f. 4.007
- Write the place value of 5 in each: 5.
 - a. Place value of 5 in 103.805 = 0.005
 - b. Place value of 5 in 12.579 = 0.5
 - c. Place value of 5 in 43.578 = 0.5
 - d. Place value of 5 in 28.35 = 0.05
 - e. Place value of 5 in 53.274 = 50
- Write in the expanded form: 6.
 - a. $8.005 = 8 + \frac{5}{1000}$
- b. $47.08 = 40 + 7 + \frac{8}{100}$
- c. $9.27 = 9 + \frac{2}{10} + \frac{7}{100}$ d. $6.403 = 6 + \frac{4}{10} + \frac{3}{1000}$

e.
$$18.875 = 10 + 8 + \frac{8}{10} + \frac{7}{100} + \frac{5}{1000}$$

7. Make a Place value chart and write the following number in it:

Q.Part	Hundreds	Tens	Ones	Point	tenths	Hundred ths	thousand- dths
	100	10	1	•	$\frac{1}{10}$ = 0.1	$\frac{1}{100}$ = 0.1	$\frac{1}{100}$ = 0.001
a.			8	•	0	5	6
b.		6	2	•	2	1	4
c.	2	0	5		0	0	8
d.			0	•	8	8	3
e.	1	1	5	٠	8	5	1

Exercise 8.4

1. Write correct or incorrect for each of the following:

- a. Correct
- b. Incorrect
- c. Correct

- d. Incorrect
- e. Correct f. Incorrect

2. Which are the equivalent decimal fractions?

- a. 0.37 and 0.370 are equivalent decimal fractions.
- b. 0.9 and 0.09 are not equivalent decimal fractions.
- c. 0.41 and 0.410 are equivalent decimal fractions.
- d. 0.9 and 0.900 are equivalent decimal fractions.
- e. 0.13 and 0.013 are not equivalent decimal fractions.
- f. 0.23 and 0.230 are equivalent decimal fractions.

3. Compare and write < or > for each:

- a. > b. >
- c. <
- d. <
- e. <

f. <

4. Which is the smallest fraction?

- a. 5.82 is the smallest fraction among 5.82, 6.92, 6.029, 6.629.
- b. 0.389 is the smallest fraction among 0.408, 0.39, 0.389, 0.42.

Exercise 8.5

1. Fill in the blanks:

- a. 0.7
- b. 0.8
- c. 0.9
- d. 0.7

2. Add the following:

$$\begin{array}{r} 0.74 \\ + 0.22 \\ \hline 0.96 \end{array}$$

Simplify the following: 3.

a.
$$0.08 + 0.0067 + 0.005 + 0.038 = 0.1297$$

b.
$$0.587 + 0.247 + 7.852 + 47.805 = 56.491$$

c.
$$22.36 + 8.6 + 39.5 + 45.68 = 116.14$$

d.
$$6.4 + 4.65 + 0.8 + 6.08 = 17.93$$

Multiple Choice Questions

Tick (✓) the correct choice:

- **Ans.** 1. c. 5. a.
- 2. a. 6.

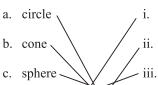
a.

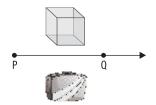
- 3. c. 7. b.
- 4. a.

Geometry

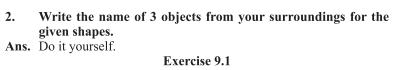
Look Back

Match the following: 1.



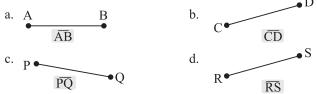


- ∽iv. d. cuboid
- Round object, 1 face, 0 corner and 0 edges
- e. cube f. Ray
- 2 faces, 1 edge and 1 corner
 - vi. 0 sides, 0 corners

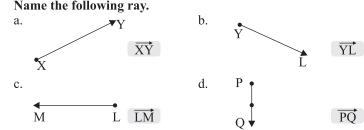




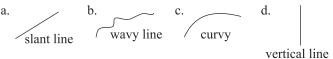
- 1. Fill in the blanks: c. point d. ling segment a. rav b. two
- Join the given points to make line segments. Name the line 2. segments.



Name the following ray. 3.



Observe the pictures carefully. Write the name of the following 4. lines:



Exercise 9.2

Measure the following line segments: 1.

Ans. a. Do it yourself.

Draw the line segments of the following lengths. 2.

Ans. a. Do it yourself.

Measure the length of each line segment and compare by 3. putting <, > or - signs.

Ans. a.
$$\overline{AB} = \overline{CD}$$
 b. $\overline{PQ} > \overline{RS}$ c. $\overline{EF} < \overline{GH}$

Exercise 9.3

Name the angles. 1.

- a. Right angle LMN
- b. Acute angle ABC
- c. Obtuse angle? PQR
- d. Straight angle ABC
- e. Complete angle PQR
- f. Reflex angle RST

Name the arms and vertex of the given angles. 2.

- a. Angle \angle BCD \mathbf{C} Vertex
- Angle ∠ AOB b. Vertex
- CBCD Arms

Arms OA, OB

In the figure, name the points that lie. 3.

a. point G, D

b. point L, P

c. point B, J

Use a protractor to measure the following angles and name 4.

- a. Right angle \angle PQR = 90° b. Acute angle \angle AB = 45°
- c. Acute angle \angle JKL = 80°
 - d. Obtuse angle $\angle XYZ = 110^{\circ}$
- e. Straight angle \angle LMN = 180°
- f. Acute angle $\angle UVW = 30^{\circ}$

Draw the following angles in your notebook and name them: 5.

- a. $\angle ABC = 45^{\circ}$ b. $\angle XYZ = 25^{\circ}$
 - c. $\angle RST = 60^{\circ}$







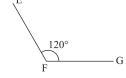
d.
$$\angle PQR = \angle 90^{\circ}$$

e.
$$\angle JKL = 30^{\circ}$$

f.
$$\angle$$
 EFG = 120°



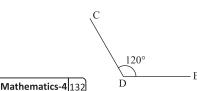




g.
$$\angle$$
 MNO = 85°

h. \angle CDE = 120°





Exercise 9.4

Put a tick (✓) for the closed figure and (X) for open figure.
 a. ✓ b. X c. ✓ d. ✓ e. X f. ✓

a.
b.
X c
Colour the polygons.

2.

Figure a, b, g, h and i are polygons.

Figure c, d, e, f are not polygons.

Exercise 9.5

1. Name the following in the figures given below:

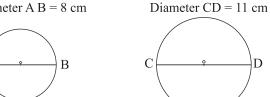
The centre	O	The centre	O
A radius	OR	A radius	OD
A diameter	MN	A diameter	AB
A chord	MQ	A chord	CD

2. Colour the polygons.

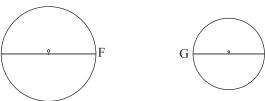
Α

Ε

a. Radius = 4 cm Diameter A B = 8 cm



c. Radius EO = 5 cm Diameter EF = 10 cm



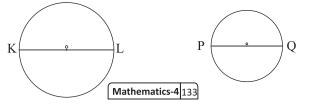
- e. Radius KO = 3.5 cm Diameter KL = 7 cm
- f. Radius PO = 2.5 cmDiameter PQ = 5 cm

b. Radius CO = 5.5m

d. Radius GO = 2cm

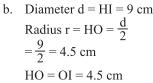
Diameter GH = 4 cm

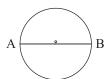
Η

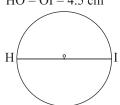


3. Calculate radius for the given diameter in each case and draw circle also:

a. Diameter d = AB = 2 cm Radius $r = AO = \frac{9}{2} = \frac{2}{2}$ = 1 cm



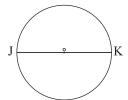




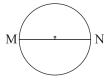
c. Diameter d = CD = 5 cm Radius $r = CO = OD = \frac{d}{2}$ $= \frac{5}{2} = 2.5$ cm

$$CO = OD = 2.5 \text{ cm}$$

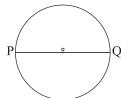
d. Diameter d = JK = 10 cmRadius r = JO = OK $= \frac{d}{2} = \frac{10}{2} = 5 \text{ cm}$



e. Diameter d = MN = 4 cm Radius $r = \frac{d}{2} = \frac{4}{2} = 2$ cm = MO = NO = 2 cm



f. Diameter d = PQ = 6 CMRadius $PO = OQ = \frac{d}{2}$ $= \frac{6}{2} = 3 \text{ cm}$ PO = OQ = 3 cm



Write T for True and F for False: 4. c. False d. True e. False a. True b. True **Multiple Choice Questions** Tick (\checkmark) the correct choice: **Ans.** 1. a. 2. a. 3. c. 4. a. **Fun with Maths** Identify the following curves as open or closed. 1. Ans. a. closed curve b. open curve. c. open curve d. closed curve 2. Identify the polygons from the following figures.

- a. Polygond. Not Polygon3. Fill in the blanks:
 - a. A circle is a **round** shape.
 - b. Circle has **infinite** diameters.
 - c. A circle has no **side** or corners.
 - d. The radius is **half of** the diameter.
 - e. The diameter is the longest **chord** of the circle.

10) Symmetry and Patterns

Look Back

1. Draw the other side of each shapes so that they looks symmetrical.



b.



2. Complete the patterns.



b.

b. Not Polygon c. Polygon



c.



3.	Tick (✓) the correct	t option that continu	es the pattern.
	a. D18 D17 🗸	D19 b. ACD	ABD ✓ ADB
	c. 45 50	47 🗸	
		Exercise 10.1	
1.			each of the following?
		Not c. Yes Not g. Not	d. Not g. Not
2.		\mathcal{E}	mmetrical? Draw the
		the symmetrical fig	
	a.	b.	c.
			Not symmetry
			Symmetry
	d.	e.	f.
		(**************************************	
		<u> </u>	
3.	Complete the figure	es along their line os	symmetry
<i>J</i> .	a.	b.	c. \bot
	\		
			i
	4	000	
	3.5 1 (1.0 (1.	Exercise 10.2	1 6 61 4
1.	b. \checkmark c. \checkmark	figures that are examed. d. e.	nples of reflections:
2.		hose reflections are g	
	a.	b. <	c.
	d.	e.	f.
		119	419
		Mathematics-4 136	

Exercise 10.3

- Complete the patterns. 1.
- b. d.

- Write the next three terms in each pattern. 2.
 - a. 59, 49, 39
- b. 61, 73, 85
- c. 12, 10, 8 c. 8, 6, 4

3.

- d. E9, F6, G7; Z26 e. 8, 6, 4
- Observe the patterns and fill in the blanks.
- 1 + 2 + 3 + 04 + 05 = 152 + 3 + 4 + 05 + 06 = 20
 - 3+4+5+06+07=25
 - 4+5+6+07+08=30
 - 5+6+7+08+09=35
 - 6+7+8+09+10=40
 - 7 + 8 + 9 + 10 + 11 = 45
- c. $9 \times 0 + 1 = 1$ $9 \times 1 + 2 = 11$
 - $9 \times 2 + 3 = 21$
 - $9 \times 3 + 4 = 31$
 - $9 \times 4 + 5 = 41$
 - $9 \times 5 + 6 = 51$
 - $9 \times 6 + 7 = 61$

- b. $(2 \times 2) (1 \times 1) = 2 + 1$
 - $(3 \times 3) (2 \times 2) = 3 + 2$
 - $(4 \times 4) (3 \times 3) = 4 + 3$
 - $(5 \times 5) (4 \times 4) = 5 + 4$ $(6 \times 6) (5 \times 5) = 6 + 5$
 - $(7 \times 7) (6 \times 6) = 7 + 6$
- d. $15873 \times 7 \times 1 = 111111$
 - $15873 \times 7 \times 2 = 222222$
 - $15873 \times 7 \times 3 = 3333333$
 - $15873 \times 7 \times 4 = 444444$
 - $15873 \times 7 \times 5 = 555555$ $15873 \times 7 \times 6 = 666666$
- The rules for these patterns consist of two steps-work them 4. out and write the next three terms.
 - a. 1, 2, 5, 14, **41, 122, 365**
- b. 1, 3, 7, 15, **31, 63, 127**
- c. 1, 4, 13, 40, **121, 364, 1093** d. 0, 3, 12, 39, **120, 363, 1092**
- e. 2, 3, 5, 9 **17, 33, 65**

Exercise 10.4

- Read the message using the first code above. 1.
 - a. MEET MEIN PARK
- b. PLANT MORE TREES
- 2. Read the message using the second code.
 - 19125 1415 161512252085145
 - d. 1912255118208

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1.

2. a. Infinite 3. c. 105

4. a.





Metric Measures

Look Back

- Tick (✓) the right unit that your would use to measure the following:
 - a. iv. m b. iii. cm c. ii. m d. i. km e. iii. l
- 2. Observe the statements given, think carefully and put in the correct units.
 - a. Sonal is 156 cm tall.
 - b. A bag of mangoes weighs 9 kg.
 - c. The distance between bengaluru and Chennai is around 366 km.
 - d. Gayathri drank 3 ml of cough syrup this morning.
 - e. the tree next to the house is about 8 m tall.

Mental Maths

Fll in the blanks.

1. 250

2. 750

3. 5250

4. 9500

Exercise 11.1

1. Change to centimetres.

1 m = 100 cm

- a. $12 \text{ m} = 12 \times 100 \text{ cm} = 1200 \text{ cm}$
- b. $3 \text{ m} = 3 \times 100 \text{ cm} = 300 \text{ cm}$
- c. $3 \text{ m } 8 \text{ cm} = 3 \text{ m} + 8 \text{ cm} = 3 \times 100 \text{ cm} + 8 \text{ cm} = 300 \text{ cm} + 8 \text{ cm} = 308 \text{ cm}$
- d. $8 \text{ m } 14 \text{ cm} = 8 \text{ m} + 14 \text{ cm} = 8 \times 100 \text{ cm} + 14 \text{ cm} = 800 \text{ cm} + 14 \text{ cm} = 814 \text{ cm}$
- e. $6 \text{ m} 50 \text{ cm} = 6 \text{ m} + 50 \text{ cm} = 6 \times 100 \text{ cm} + 50 \text{ cm} = 600 \text{ cm} + 50 \text{ cm} = 650 \text{ cm}$
- f. $2 \text{ m } 14 \text{ cm} = 2 \text{ m} + 14 \text{ cm} = 2 \times 100 \text{ cm} = 14 \text{ cm} = 200 \text{ cm} + 14 \text{ cm} = 214 \text{ cm}$
- g. $7 \text{ m } 75 \text{ cm} = 7 \text{ m} + 75 \text{ cm} = 7 \times 100 \text{ cm} + 75 \text{ cm} = 700 \text{ cm} + 75 \text{ cm} = 775 \text{ cm}$

- h. $9 \text{ m } 2 \text{ cm} = 9 \text{ m} + 2 \text{ cm} = 9 \times 100 \text{ cm} + 2 \text{ cm} = 900 \text{ cm} + 2 \text{ cm} = 902 \text{ m}$
- 2. Express in metres and centimetres.

100 cm = 1 m

- a. 1437 cm = 1400 cm + 37 cm
 - $= (1400 \div 100) \text{ m} + 37 \text{ cm}$
 - = 14 m + 37 cm
 - = 14 m 37 cm
- b. 925 cm = 900 cm + 25 cm
 - $= (900 \div 100) \text{ m} + 25 \text{ cm}$
 - = 9 m + 25 cm
 - = 9 m 25 cm
- c. 600 cm
 - $= (600 \div 100) \text{ m} = 6 \text{ m}$
- d. 901 cm
 - = 900 cm + 1 cm
 - $= (900 \div 100) \text{ m} + 1 \text{ cm}$
 - = 9 m + 1 cm = 9 m 1 cm
- e. 705 cm
 - = 700 cm + 5 cm
 - $= (700 \div 100) \text{ m} + 5 \text{ cm}$
 - = 7 m + 5 cm
 - = 7 m 5 cm
- f. 310 cm
 - = 300 cm + 10 cm
 - $= (300 \div 100) \text{ m} + 10 \text{ cm}$
 - = 3 m + 10 cm
 - = 3 m 10 cm
- g. 385 cm
 - = 300 cm + 85 cm
 - $= (300 \div 100) \text{ m} + 85 \text{ cm}$
 - = 3 m + 85 cm
 - = 3 m 85 cm
- h. 4005 cm
 - = 4000 cm + 5 cm
 - $= (4000 \div 100) \text{ m} + 5 \text{ cm}$
 - = 40 m + 5 cm
 - = 40 m 5 cm

3. Express in metres.

1 km = 1000 m

a.
$$5 \text{ km} = 5 \times 1000 \text{ m} = 5000 \text{ km}$$

b.
$$14 \text{ km} = 14 \times 1000 \text{ m} = 14000 \text{ km}$$

c.
$$9 \text{ km } 25 \text{ m} = 9 \text{ km} + 25 \text{ m} = 9 \times 1000 \text{ m} + 25 \text{ m}$$

= $9000 \text{ m} + 25 \text{ m} = 9025 \text{ m}$

e.
$$1 \text{ km } 125 \text{ m} = 1 \text{ km} + 125 \text{ m} = 1 \times 1000 \text{ m} + 125 \text{ m}$$

= $1000 \text{ m} + 125 \text{ m} = 1125 \text{ m}$

f.
$$6 \text{ km } 295 \text{ m} = 6 \text{ km} + 295 \text{ m} = 6 \times 1000 \text{ m} + 295 \text{ m}$$

= $6000 \text{ m} + 295 \text{ m} = 6295 \text{ m}$

g.
$$3\frac{1}{2}$$
 km = km = $\frac{7}{2}$ × 1000 m = $\frac{7000}{2}$ m = **3500 m**

h.
$$7\frac{1}{2}$$
 km = $\frac{15}{2}$ km = $\frac{15}{2}$ × 1000 m = $\frac{15000}{2}$ m = 7500 m

4. Change to kilometres and metres.

1000 m = 1 km

a.
$$3000 \text{ m} = (3000 \div 1000) \text{ km} = 3 \text{ km}$$

b.
$$1084 \text{ m} = 1000 \text{ m} + 84 \text{ m}$$

= $(1000 \div 1000) \text{ km} + 84 \text{ m}$

=
$$1 \text{ km} + 84 \text{ m} = 1 \text{ km} 84 \text{ m}$$

c. $1950 \text{ m} = 1000 \text{ m} + 950 \text{ m}$
= $(1000 \div 1000) \text{ km} + 950 \text{ m}$

$$= 1 \text{ km} + 950 \text{ m} = 1 \text{ km} 950 \text{ m}$$

d.
$$7025 \text{ m} = 7000 \text{ m} + 25 \text{ m}$$

= $(7000 \div 1000) \text{ km} + 25 \text{ m}$
= $7 \text{ km} + 25 \text{ m} = 7 \text{ km} 25 \text{ m}$

f.
$$8050 \text{ m} = 8000 \text{ m} + 50 \text{ m}$$

= $(8000 \div 1000) \text{ km} + 50 \text{ m}$
= $8 \text{ km} + 50 \text{ m}$

$$= 8 \text{ km} + 30 \text{ m}$$

$$= 5 \text{ km} + 175 \text{ m}$$

$$= 5 \text{ km } 175 \text{ m}$$

- h. 3246 m = 3000 m + 246 m $= (3000 \div 1000) \text{ km} + 246 \text{ m}$
 - = 3 km + 246 m
 - = 3 km 246 m

5. Change the following.

1 cm = 10 m

1 dm = 10 cm = 100 mm

10 dm = 1 m

- a. 61 cm 9 mm into mm
 - = 61 cm + 9 mm
 - $= 61 \times 10 \text{ mm} + 9 \text{ mm}$
 - = 610 mm + 9 mm
 - = 619 mm
- b. 921 dm into m
 - $= 920 \text{ dm} + 1 \text{ dm} = (920 \div 10) \text{ m} + 1 \text{ dm}$
 - = 92 m + 1 dm = 92 m 1 dm
- c. 12 dm 5 cm into cm
 - $= 12 \text{ dm} + 5 \text{ cm} = 12 \times 10 \text{ cm} + 5 \text{ cm}$
 - = 120 cm + 5 cm = 125 cm
- d. 50 mm
 - $= (50 \div 10) \text{ cm} = 5 \text{ cm}$

Exercise 11.2

1. Change the following into g.

- 1 kg = 1000 g
- a. $17 \text{ kg} = 17 \times 1000 \text{ g} = 17000 \text{ g}$
- b. $12 \text{ kg} = 12 \times 1000 \text{ g} = 12000 \text{ g}$
- c. $9 \text{ kg } 279 \text{ g} = 9 \text{ kg} + 279 \text{ g} = 9 \times 1000 \text{ g} + 279 \text{ g}$ = 9000 g + 279 g = 9279 g
- d. $4 \text{ kg } 15 \text{ g} = 4 \text{ kg} + 15 \text{ g} = 4 \times 1000 \text{ g} + 15 \text{ g}$
 - = 4000 g + 15 g = 4015 g
- e. $11 \text{ kg } 9 \text{ g} = 11 \text{ kg} + 9 \text{ g} = 11 \times 1000 \text{ g} + 9 \text{ g}$ = 11000 g + 9 g = 11009 g
- f. $6 \text{ kg } 75 \text{ g} = 6 \text{ kg} + 75 \text{ g} = 6 \times 1000 \text{ g} + 75 \text{ g}$ = 6000 g + 75 g = 6075 g
- g. $15 \text{ kg } 15 \text{ g} = 15 \text{ kg} + 15 \text{ g} = 15 \times 1000 \text{ g} + 15 \text{ g}$ = 15000 g + 15 g = 15015 g
- h. $7 \text{ kg } 256 \text{ g} = 7 \text{ kg} + 256 \text{ g} = 7 \times 1000 \text{ g} + 256 \text{ g}$ = 7000 g + 250 g = 7256 g

2. Change the following into mg.

$$1 g = 1000 m$$

- a. $10 \text{ g} = 10 \times 1000 \text{ mg} = 10,000 \text{ mg}$
- b. $19 \text{ g} = 19 \times 1000 \text{ mg} = 19,000 \text{ mg}$
- c. $5 g 25 mg = 5 g + 25 mg = 5 \times 1000 mg + 25 m$ = 5000 mg + 25 mg = 5025 mg
- d. $6 g 732 mg = 6 g + 732 mg = 6 \times 1000 mg + 732 m$ = 6000 mg + 732 mg = 6732 mg
- e. $3 \text{ g } 58 \text{ mg} = 3 \text{ g } + 58 \text{ mg} = 3 \times 1000 \text{ mg} + 58 \text{ mg}$ = 3000 mg + 58 mg = 3058 mg
- f. $3 \text{ g } 408 \text{ mg} = 3 \text{ g} + 408 \text{ mg} = 3 \times 1000 \text{ mg} + 408 \text{ mg}$ = 3000 mg + 408 mg = 3408 mg
- g. $82 \text{ g} 82 \text{ mg} = 82 \text{ g} + 82 \text{ mg} = 82 \times 1000 \text{ mg} + 82 \text{ mg}$ = 82000 mg + 82 mg = 82082 mg
- h. $1 \text{ g } 9 \text{ mg} = 1 \text{ g} + 9 \text{ mg} = 1 \times 1000 \text{ mg} + 9 \text{ mg}$ = 1000 mg + 9 mg = 1009 mg

3. Change the following into kg.

$$1000 g = 1 kg$$

- a. $2075 \text{ g} = 2000 \text{ g} + 75 \text{ g} = (2000 \div 1000) \text{ kg} + 75 \text{ g}$ = 2 kg + 75 g = 2 kg 75 g
- b. $8008 \text{ g} = 8000 \text{ g} + 8 \text{ g} = (8000 \div 1000) \text{ kg} + 8 \text{ g}$ = 8 kg + 8 g = 8 kg 8 g
- c. $8080 \text{ g} = 8000 \text{ g} + 80 \text{ g} = (8000 \div 1000) \text{ kg} + 80 \text{ g}$ = 8 kg + 80 g = 8 kg 80 g
- d. $4000 \text{ g} = (4000 \div 1000) \text{ kg} = 4 \text{ kg}$
- e. $6700 \text{ g} = 6000 \text{ g} + 700 \text{ g} = (6000 \div 1000) \text{ kg} + 700 \text{ g}$ = 6 kg + 700 g = 6 kg 700 g
- f. 77008 g = 77000 g + 8 g = (77000 \div 1000) kg + 8 g = 77 kg + 8 g = **77 kg 8 g**
- g. $7849 \text{ g} = 7000 \text{ g} + 849 \text{ g} = (7000 \div 1000) \text{ kg} + 849 \text{ g}$ = 7 kg + 849 g = 7 kg 849 g
- h. $2387 g = 2000 g + 387 g = (2000 \div 1000) kg + 387 g$ = 2 kg + 387 g = 2 kg 387 g

4. Change the following into g.

$$1000 \text{ mg} = 1 \text{ g}$$

- a. $8000 \text{ mg} = (8000 \div 1000) \text{ g} = 8 \text{ g}$
- b. $4200 \text{ mg} = 4000 \text{ mg} + 200 \text{ mg} = (4000 \div 1000) \text{ g} + 200 \text{ mg}$ = 4 g + 200 mg = 4 g 200 mg

- c. $7288 \text{ mg} = 7000 \text{ mg} + 288 \text{ mg} = (7000 \div 1000) \text{ g} + 288 \text{ mg}$ = 7 g + 288 mg = 7 g 288 mg
- d. $4500 \text{ mg} = 4000 \text{ mg} + 500 \text{ mg} = (4000 \div 100) \text{ g} + 500 \text{ mg}$ = 4 g + 500 mg = 4 g 500 mg
- e. $3255 \text{ mg} = 3000 \text{ mg} + 255 \text{ mg} = (3000 \div 1000) \text{ g} + 255 \text{ mg}$ = 3 g + 255 mg = 3 g 255 mg
- f. $6018 \text{ mg} = 6000 \text{ mg} + 18 \text{ mg} = (6000 \div 1000) \text{ g} + 18 \text{ mg}$ = 6 g + 18 mg = 6 g 18 mg
- g. $27055 \text{ mg} = 27000 \text{ mg} + 55 \text{ mg} = (27000 \div 1000) \text{ g} + 55 \text{ mg}$ = 27 g + 55 mg = 27 g 55 mg
- h. $19265 \text{ mg} = 19000 \text{ mg} + 265 \text{ mg} = (19000 \div 1000) \text{ g} + 265 \text{ mg}$ = 19 g + 265 mg = 19 g 265 mg

Exercise 11.3

1. Convert into L.

- 1 kL = 1000 L
- a. $6 \text{ kL} = 6 \times 1000 \text{ L} = 6000 \text{ L}$
- b. $15 \text{ kL} = 15 \times 1000 \text{ L} = 15000 \text{ L}$
- c. $6 \text{ kL } 90 \text{ L} = 6 \text{ kL} + 90 \text{ L} = 6 \times 1000 \text{ L} + 90 \text{ L}$
- d. 8 kL 8 L = 8 kL + 8 L = 8 × 1000 L + 8 L = 8000 L + 8 L = 8008 L
- e. 4 kL 70 L = 4 kL + 70 L = 4 × 1000 L + 70 L = 4000 L + 70 L = 4070 L
- f. 12 kL 265 L = 12 kL + 265 L = 12 × 1000 L + 265 L = 12000 L + 265 L = 12265 L
- g. 18 kL 1 L = 18 kL + 1 L = 18 × 1000 L + 1 L = 18000 L + 1 L = 18001 L
- h. $25 \text{ kL} 70 \text{ L} = 25 \text{ kL} + 70 \text{ L} = 25 \times 1000 \text{ L} + 70 \text{ L}$ = 25000 L + 70 L = 25070 L

2. Convert into mL.

- 1 L = 1000 mL
- a. $16 L = 16 \times 1000 \text{ mL} = 16000 \text{ mL}$
- b. $7 L = 7 \times 1000 \text{ mL} = 7000 \text{ mL}$
- c. $1 L 4 mL = 1 L + 4 mL = 1 \times 1000 mL + 4 m$ = 1000 mL + 4 mL = 1004 mL
- d. 7 L 270 mL = 7 L + 270 mL = 7 × 1000 m + 270 mL = 7000 mL + 270 mL = 7270 mL
- e. $17 L 55 mL = 17 L + 55 mL = 17 \times 1000 mL + 55 mL$ = 17000 mL + 55 mL = 17055 mL

- f. $10 \text{ L} 450 \text{ mL} = 10 \text{ L} + 450 \text{ mL} = 10 \times 1000 \text{ mL} + 450 \text{ mL}$ = 10,000 mL + 450 mL = 10,450 mL
- g. $3 L 15 mL = 3 L + 15 mL = 3 \times 1000 mL + 15 mL$ = 3000 mL + 15 mL = 3015 mL
- h. $2 L 970 mL = 2 L + 970 mL = 2 \times 1000 mL + 970 mL$ = 2000 mL + 970 mL = 2970 mL

3. Convert into kL.

1000 L = 1 kL

- a. $7280 L = 7000 L + 280 L = (7000 \div 1000) kL + 280 L$ = 7 kL + 280 L = 7 kL 280 L
- b. $62000 L = (62000 \div 1000) kL = 62 kL$
- c. $15255 L = 15000 L + 255 L = (15000 \div 1000) kL + 255 L$ = 15 kL + 255 L = 15 kL 255 L

Exercise 11.4

1. Add:

= 137 kg 377 g

kg 7 5	2 ^g 5 0
+ 62	675
111	850

- c. 42 km 175 m + 69 km 675 m= 111 km 850 m
- = 122 kg 44 gkg 6 ^g 7 2 54 +67372
- 122 044 f. 33 L 333 mL + 66 L 666 mL g.

= 99 L 999 mL

L mL 33 333 + 66 666 99 999 Mathematics-4 144

a. 75 kg 250 g + 62 kg 127 g b. 8 L 455 mL + 16 L 285 mL = 24 L 740 mL

kg 8	4 5 5
+ 16	285
137	740

kg 42	1 ^g 5
+ 69	675
111	850

d. 54 kg 672 g + 67 kg 372 g e. 8 g 30 mg + 19 g 705 mg + 30 g 475 mg = 58 g 210 mg

g 8	mg 3 0
+ 19	705
3 0	475
58	210

15 m 25 cm + 8 m 65 cm= 23 m 90 cm

> m mL 15 25 + 8 65 23 90

2. **Subtract:**

a. 10 L 250 mL 5 L 650 mL = 4 L 600 mL

1	L l 0	mL 250
_	5	650
	4	600

= 14 kg 700 g

kg 3 2	$\begin{array}{c} \mathbf{g} \\ 1 \ 0 \ 0 \end{array}$
-17	400
14	700

e. 38 g 400 mg 27 g 875 mg f. 88 L 672 mL 74 L 900 mL = 10 g 525 mg

g	mg
3 8	400
-27	875
10	525

g. 72 km 700 m - 66 km 825 m h. 40 km 35 km 675 m = 5 km 875 m

km	m
72	700
-66	825
5	875

b. 81 kg 350 g 73 kg 450 g = 7 kg 900 g

kg 8 1	3 5 0
-73	450
7	900

c. 32 kg 100 g 17 kg 400 g d. 92 m 66 cm 88 m 46 cm = 4 m 20 cm

m 9.2	cm 66
-88	46
4	20

= 13 L 772 mL

L	mL
88	672
-74	900
13	772

= 4 km 325 m

km 4 0	m 0 0 0
-35	675
4	325

Exercise 11.5

Solve the following:

Ans. 1. The mangoes are bought = 9 kg 500 gThe mangoes are sold = 4 kg 750 gThe mangoes are left with him = 4 kg 750 gSo, 4 kg 750 g mangoes are left with the shopkeeper.

2. Distance travelled by car = 5 km 250 mDistance travelled by bus = 3 km 450 mDistance travelled by walk = 6000 mTotal distance = 9 km 300 mSo, Mr. Jackson travelled 9 km 300 m in all.

e e p e i .				
	kg 5	2 g 2 5 0		
	3	450		
+	0	600		
	9	300		

5 0 0

750

750

3.	Orange squash = $12 L 250 mL$
	Lemon squash = $16 L 300 mL$
	Pineapple squash = $10 L 0 mL$
	Total quantity of squash = $38 L 550 mL$
	So, Mary made 38 L 550 mL total quantity
	of squash.

12	250
16	300
+10	000
3 8	550

ml

L

4.	Ribbon is bought by Roma = 32 m
	Ribbon is used in dress = $18 \text{ m} 75 \text{ cm}$
	Ribbon is $left = 13 \text{ m } 75 \text{ cm}$
	So, 13 m 75 cm of ribbon is left with Roma.

m	cm
3 2	0.0
-18	7 5
13	25

5. Total quantity of juice was = 2 L 200 mL The juice was drunk by Kamal = 750 mL The juice is left in the pack = 1 L 450 mL So, 1 L 450 mL of juice is left in the pack.

	m 2	cm 200
_	0	750
	1	450

6. Weight of potatoes = 2 kg 400 g Weight of tomatoes = 1 kg 550 g Total weight of both = 3 kg 950 g So, Mrs Tomar bought 3 kg 950 g of vegetables.

	kg 2	$4\overset{\mathbf{g}}{0}0$
_	1	550
	3	950

Multiple Choice Questions

Tick (\checkmark) the correct choice :

Ans. 1. c. 2020 5. a. 87,341

2. b. 100

3. b. 44m

4. b. 485mL

Fun with Maths
Complete in the cross number puzzle using the conversion rules.

1 3	2					
0		² 4				
	³ 6	3				
4 7		8				
5 2	7					
0		6 3				
	⁷ 4	6	1		8 9	⁹ 5
108		2		"7		2
128	9		¹³ 4	2	5	

Time and Calendar

Look Back

Choose the activities according to the time taken to complete 1. them and list them in the suitable boxes by writing the correct letters.

Takes minutes

- Brushing your teeth a.
- e. having lunch
- f. making a cup of tea
- Having a bath

Takes hours

- Watching a movie b.
- Sleeping at night c.
- Attending school on Monday d.
- Stitching a Kuarta h.

Exercise 12.1

- Read the time shown in the clock to the exact minute and 1. write it in any two ways.
- Ans. a.

7:17 17 minutes past 7 b.

10:22 22 minutes past 10

c.

4.50 10 minutes to 9 d.

6.17 17 minutes past6

e.

9:36 24 minutes to 24 f.

10:12 12 minutes past 10

- 2. Draw the hands of the clocks to show the given time.



b.





fifty-three

- Write the time 2 hours before: 3.
 - 1:18 a.m.

The time 2 hours be fore 1:18 am is 11:18 pm

b. 7:25 a.m.

The time 2 hours be fore 7:25 am is 5:25 am

c. 9:08 a.m.

The time 2 hours be fore 9:08 am is 7:08 am

d. 11:47 a.m.

The time 2 hours be fore 11:47 am is 9:47 am

e. 10:30 p.m.

The time 2 hours be fore 10:30 pm is 8:30 pm

f. 1:02 p.m.

The time 2 hours be fore 1:02 pm is 11:02 am

4. Give the time 3 hours after:

a. 11:00 p.m.

The time 3 hours after 11:00 pm is 2:00 am

b. 8:31 p.m.

The time 3 hours after8: 31 pm is 11: 31 pm

c. 7:40 a.m.

The time 3 hours after 7:40 am is 10:40 am

d. 1:04 p.m.

The time 3 hours after 1:04 pm is 4:04 pm

e. 6:03 a.m.

The time 3 hours after 6:03 am is 9:03 am

f. 11:15 a.m.

The time 3 hours after 11:15 am is 2:15 pm

Mental Maths

1. Hockey match was start at 1440 hours.

The time in the 12 hour clock would be **2:45 p.m**.

2. 4:15 p.m. in the 24 hours clock to **1615 hours**

Exercise 12.2

1. Change the 12-hour clock time to 24-hour clock time:

	12-nour clock time	24-nour clock time:
a.	10:00 a.m.	1000 hours
b.	11:00 a.m.	1100 hours
c.	12 midnight	0000 hours/2400 hours
d.	2:47 p.m.	1447 hours
e.	8:45 a.m.	0845 hours
f.	8:20 p.m.	2020 hours
g.	1:05 p.m.	1305 hours
h.	3:15 a.m.	0315 hours

2. Change the 24-hour clock time to 12-hour clock time :

	24-hour clock time	12-hour clock time
a.	0800 hours	8 : 00 am
b.	1320 hours	1 : 20 pm
c.	1640 hours	4 : 40 pm
d.	1115 hours	11:15 am
e.	0430 hours	4:30 am
f.	2340 hours	11:40 pm
g.	1200 hours	12 : 00 noon
h.	2250 hours	10 : 50 pm

Exercise 12.3

1. Convert the following into seconds:

1 minute = 60 seconds

- a. 5 minutes = 5×60 seconds = **300 seconds**
- b. 17 minutes = 17×60 seconds = **1020 seconds**
- c. 24 minutes = 24×60 seconds = **1440 seconds**
- d. 36 minutes 48 seconds = 36 minutes + 48 seconds
 - = 36×60 seconds + 48 seconds = 2160 second + 48 seconds
 - = **2208** seconds
- e. 10 minutes 17 seconds = 10 minutes + 17 seconds
 - $= 10 \times 60 \text{ seconds} + 17 \text{ seconds} = 600 \text{ seconds} + 17 \text{ seconds}$

60)487(8

480

60)325(5

300

= 617 seconds

2. Convert the following into hours and minutes:

60 minutes = 1 hour

- a. 487 minutes = (487 ÷ 60) hours 487 ÷ 60 gives quotient 8 and remainder 7 = 8 hours 7 minutes
- b. 325 minutes = (325 ÷ 60) hours 325 ÷ 60 gives quotient 5 and remainder 25. = 5 hours 25 minutes
- c. 156 minutes = (156 ÷ 60) hours 156 ÷ 60 gives quotient 2 and remainder 36 = 2 hours 36 minutes
- d. 526 minutes = (526 ÷ 60) hours 526 ÷ 60 gives quotient 8 and remainder 6 = 8 hours 46 minutes
- e. 1515 minutes = $(1515 \div 60)$ hours $1515 \div 60$ gives quotient 25 and remainder 15 = 25 hours 15 minutes

- f. $1025 \text{ minutes} = (1025 \div 60) \text{ hours}$
 - $1025 \div 60$ gives quotient = 17 and remainder 5
 - = 17 hours 5 minutes

3. Convert the following into minutes:

- 60 minutes = 1 hour
- 60 seconds = 1 minutes
- a. $360 \text{ seconds} = (360 \div 60) \text{ minutes} = 6 \text{ minutes}$
- b. 7 hours = 7×60 minutes = **420 minutes**
- c. 3 hours 25 minutes = 3 hours + 25 minutes
 - $= 3 \times 60 \text{ minutes} + 25 \text{ minutes} = 180 \text{ minutes} + 25 \text{ minutes}$
 - = **205** minutes
- d. 5 hours 20 minutes e = 5 hours + 20 minutes = 5 × 60 minutes + 20 minutes
 - = 300 minutes + 20 minutes = 320 minutes
- e. 15 hours 6 minutes = 15 hours + 6 minutes = 15×60 minutes + 6 minutes
 - = 900 minute + 6 minutes = 906 minutes
- f. 6 hours 14 minutes = 6 hours + 14 minutes = 6×60 minutes

c.

- + 14 minutes
- = 360 minutes + 14 minutes = 374 minutes

Exercise 12.4

1. Add:

- a. min sec 1 4 5 1 5 1 0 0
- Hr min
 3 5
 4 0
 1 1 5

h.

d.

Hr min sec (1) (1) 1 0 4 0 2 6 + 4 2 6 3 4 1 5 0 7 0 0

- e. Hr min sec 1 1 1 3 5 4 0 5 0 + 5 1 6 3 0 4 0 5 7 2 0
- Hr min sec (1)(1) (1) 1 3 4 0 5 4 9 2 8 3 1 2 3 2 9 2 5

2. Find:

- a. min sec 40 45 -28 20 12 25
- b. min sec 1 2 4 5 - 6 3 0 6 1 5

f.

- C. min sec 3 48 - 1 03 2 45
- d. Hr min sec

 1 2 2 0 0 4

 8 1 4 0 2

 4 0 6 0 2

e.	Hr	min	sec	f.
•	2 4	77	6 5	
	25	73	05	
	-16	2 4	10	
	8	49	5 5	

3. Add:

a. 12 hr 45 min + 15 hr 35 min = 28 hr 20 min

	1	ır	m	ıin
	((1)		
	1	2	4	5
+	1	5	3	5
	2	8	2	0

b. 7 hr 40 min + 10 hr 25 min = 18 hr 05 min

]	hr	m	iin
	(7	4	0
+	1	0	2	5
	1	8	0	5

c. 19 hr 25 min + 13 hr 50 min = 33 hr 15 min

	hr		min
	,	7	4 0
+	1	0	2 5
	1	8	0.5

d. 16 hr + 14 hr 50 min = 30 hr 50 min

	hr		m	iin
+	1	6	0 5	0
Г	3	0	5	0

e. 2 hr 20 min + 8 hr 40 min = 11 hr

	hr	min
	2	20
+	8	40
	11	0.0

f. 3 hr 15 min + 5 hr 30 min = 8 hr 45 min

	hr	min
+	3 5	1530
L	- 8	4.5

4. Subtract:

a. 18 hr 50 min – 12 hr 35 min = 6 hr 15 min

	hr		n	nin
	1	8	5	0
Ī	1	6	1	5

b. 15 hr 30 min - 11 hr = 4 hr 30 min

c. 14 hr 45 min – 9 hr 50 min = 4 hr 55 min

d. 7 hr 45 min – 4 hr 20 min = 3 hr 25 min

e. 2 hr 40 min – 13 hr 55 min = 7 hr 45 min hr min 20 100 2+ 4+0 -13 59 7 45

f. 10 hr 10 min – 6 hr 25 min = 3 hr 45 min

5. Find the duration of time from:

- a. Duration of time from 7: 15 a.m. to 11: 45 a.m. = 11 = 45 am 7: 15 am = 4 hr 30 min
- hr min
 1 1 4 5
 7 1 5
 4 3 0
- b. Duration of time from 1:15 p.m. to 2:00 p.m.
 - = 2:00 pm 1:15 pm
 - = 45 min
- c. Duration of time from 10:30 a.m. to 5:30 p.m.
 - = from 1030 hr to 1730 hr
 - = 1730 hr 10 30 hr
 - = 700 hr

- d. Duration of time from 1230 hr to 0900 hr (Next day) Duration of time from 12:30 hr to (0900 + 24 00
 - = 3300 hr
 - $= 3300 \text{ hr} \ 1230 \text{ hr} = 20 \text{ hr} \ 30 \text{ min}$

,	
hr	min
3 3	0.0
-12	3 0
2 0	3 0

- e. Duration of time from 1615 hr to 2030 hr
 - = 2030 hr 1615 hr
 - = 4 hr 15 min

hr	min
2 0	3 0
-16	1 5
4	1 5

min

8 90 -9 30

4 5

4 5

min

90

630

2 45 3 45

6. a. 45 minutes before 9:30 a.m. = 8:45 a.m.

Manay reached the school at 9:30 a.m.

Naman reached the school 45 minutes before

Manay

So Naman reached the school at 8:45 a.m.

So, Naman reached the school at **8:45 a.m**.

b. Time earlier 2 hours 45 from 6: 30 pm = 3: 45 pm Arpit reached home at 6: 30 pm Johan had reached 2 hours 45 minutes earlier than Arpit.
So, Johan had reached home at 3: 45 pm

c. Programme states at 1415 hours Programme ends after 3 hours 45 minutes. So, programme will end at **1800 hours**. hr min
1
1-4-1-5
- 3 45
18 00

hr min 8 90

3 45

9-30

4 5

d. 3 hr 45 min before 9: 30 am = 5: 45 am
The Chennai Mail reached at 9: 30 am
The Hourah mail had reached 3 hours 45 min before.

So, the Howrach mail had reached Mumbai at 5:45 am.

e. Jane took 12 hr 35 min for same distance.
Joe took 8 hr 42 min for same distance.
So less time take by Joe = 12 hr 35 min 8 hr 4 min = 3 hr 53 min

So, Joe took less time by 3 hr 53 min than Jane.

- f. 20 minutes after 7: 15 am = 7: 35 am
 40 minutes after 7: 35 am = 8: 15 am
 15 minutes after 8: 15 am = 8: 30 am
 Shreya started for school at 7: 15 am
 She waited for 20 min upto 7: 35 for the bus.
 She traelled for 40 min upto 8: 15 am
 She walked for 15 min upto 8: 30 am
 So, she reached school at 8: 30 am
 - g. A bus reached city bat 3:35 pm
 A bus left city A at 2:40 pm
 The time taken by bus = 3:35 pm 2:40 pm
 = 55 minutes.
 So, the bus took 55 minutes to reach city B from city A.

	hr	min
	2	95
	-3-	35
_	2	40
Г	0	5 5

h. Rohit took 3 hr 23 min to reach same distance.
Rahul took 2 hr 53 min more than Rohit.
Time was taken by Rahul = 3 hr 23 min +
2 hr 53 min = 6 hr 16 min

Exercise 12.5

hr min 1 95 -3 25 + 2 53 6 16

1. Convert the days to hours:

A day = 24 hours

A fort night = 15 days

a.
$$1\frac{1}{5} \text{ days} = \frac{3}{2} \text{ days} = \frac{13}{4} \times 24 \text{ hours} = 36 \text{ hours}$$

- b. $3 \text{ days} = 3 \times 24 \text{ hours} = 72 \text{ hours}$
- c. A fortnight = $15 \text{ days} = 15 \times 24 \text{ hours} = 360 \text{ hours}$

d.
$$3\frac{1}{4}$$
 days = $\frac{13}{4}$ days = $\frac{13}{4} \times 24$ hours = **360 hours**

2. Convert into days:

1 week = 7 days

- a. $96 \text{ hours} = (96 \div 24) \text{ days} = 4 \text{ days}$
- b. 2 weeks and 4 days = 2×7 days + 4 days = 14 days + 4 days = **18 days**
- c. $146 \text{ hours} = (146 \div 24) \text{ days}$ $146 \div 24 \text{ gives quotient} = 6 \text{ and remainder} = 2 = 6 \text{ days } 2 \text{ hr}$
- d. 4 weeks = 4×7 days = **28 days**

3. Which of the following are leap years?

- a. 19981998 is not exactly divisible by 4.So, 1998 is not a leap year.
- $\begin{array}{r}
 4)1998 \\
 -16 \\
 \hline
 39 \\
 -36 \\
 \hline
 38
 \end{array}$

- 36

02

500

- b. 1952 1952 is exactly divisible by 4. So, 1952 is a leapyear.
- $-\frac{32}{32}$ $-\frac{32}{0}$

35

688

4) 1952

c. 2002 2002 is not divisible by 4. So, 2002 is not a leap year. $\begin{array}{r}
 4)2002 \\
 -20 \\
 \hline
 02 \\
 -00 \\
 \hline
 2
 \end{array}$

- d. 2004 2004 is exactly divisible by 4. So, 2004 is a leap year.
- $\begin{array}{r}
 4)\overline{2004} \\
 -\underline{20} \\
 004 \\
 -\underline{4} \\
 0
 \end{array}$

501

e. 2010 2010 is not divisible by 4. So, 2010 is not a leap year. 4)2012 -20 10 -8

502

- f. 2012 2012 is exactly divisible by 4. So, 2012 is a leap year.
- $\begin{array}{r}
 503 \\
 4)2012 \\
 -20 \\
 \hline
 012 \\
 -12 \\
 \hline
 0
 \end{array}$
- g. 20322032 is exactly divisible by 4.So, 2032 is a leap year.

4)2032 -20 032 -32

508

h. 2028
$$2028$$
 2028 2028 is exactly divisible by 4. 28 So, 2028 is a leap year. 28 28

4. Solve.

a. Nandini was on leave from 10 May to 11 July.

Days from 10 May to 31 May = 22 days.

Days from 1 June to 30 June = 30 days.

Days from 1 July to 11 July = 11 days

Total Days when she was on leave = 22 + 30 + 11 = 63 days.

So, Nandini was on leave of 63 days.

b. Gaurav's family reach Shimla on the morning of 19 October. They left Shimla on 5 November.

Days from 19 October to 31 October = 13 days

Days from 1 November to 5 November = 5 days

Total days when they stayed in Shimla = 13 + 5 = 18 days.

So they stayed in Shimla 18 days

c. Mrs Kaushal took a leave of 35 days from 14th April.

Days from 14 April to 30 April = 17 days

Days of leave in May = $35 \cdot 17 = 18$

So, she was on leave from 14th April 18th May.

So, she will rejoin on 19th May her duty.

Multiple Choice Questions

Tick (✓) the correct choice:

Ans. 1. a. 1835 2. c.

2. c. 11:05p.m.

3. c. 52

4. b. 5400

5. a. 6

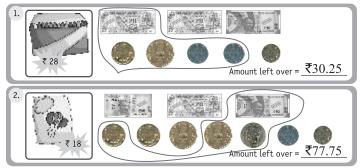
Fun with Maths

Do it yourself.

Look Back

Circle the money Rachna needs to buy each item. Write the amount left over.





Exercise 13.1

1. Write as paise (p):

a.
$$\mathbf{\xi} 6 = \mathbf{600} \, \mathbf{p}$$

c.
$$₹ 5.50 = 550 \text{ p}$$

e.
$$\neq 32.25 = 3225 \text{ p}$$

g.
$$\stackrel{?}{\neq} 151.20 = 15120 \text{ p}$$

a.
$$100 p = ₹ 1$$

c.
$$2600 p = ₹ 26$$

d.
$$\not\equiv$$
 4.15 = **415** p

f.
$$7.05 = 705 \,\mathrm{p}$$

b. $600 \text{ p} = \text{\ref{6}}$

Mental Maths

Write amount to paise:

1.
$$+$$
 $+$ $+$ $+$ $+$ $=$ $600p$

3.
$$= 13,000 \text{ p}$$

Exercise 13.2

1. Add the following:

a. ①

₹ 227.57

- ₹ 621.68

₹ 849.25

b. ① ① ① ① ② § 641.79 ← ₹ 191.81 ♥ 833.60

c.

d. ① ① ① ₹2074.97 -₹ 130.21 ₹ 97.65 ₹ 435 77

2. Add:

- a. $\mathbf{\xi}$ 33.07 + $\mathbf{\xi}$ 54.45 + $\mathbf{\xi}$ 96.08 = $\mathbf{\xi}$ 183.60
- b. ₹ 207.23 + ₹ 149.50 + ₹ 9.27 = ₹ 366.00

b.

- c. $\not\equiv 61 + \not\equiv 40.50 + \not\equiv 73.75 = \not\equiv 175.25$
- d. ₹ 38.90 + ₹ 79 + ₹ 58.58 = ₹ 166.48

3. Subtract the following.

 ₹ 713.79 - ₹ 198.81 ₹ 594.60 ₹ 847.91 - ₹ 691.21 ₹ 156.70

d. - ₹ 498.70 - ₹ 211.20 ₹ 287.50

4. Subtract:

- a. ₹ 63.47 from ₹ 192.60 = ₹ 129.13
- b. ₹ 326.69 from ₹ 500 = ₹ 173.31
- c. ≥ 215.80 from $\ge 557.25 = \ge 341.45$
- d. ₹ 69.56 from ₹ 802.49 = ₹ 732.93

5. Solve:

- a. The cost of a foot ball = ₹ 110.00

 The cost of a toy car = ₹ 90.00

 Difference in their costs = ₹ 20.00

 So, ₹ 20 is the difference in their cost.
- b. The cost of a packet of crayons = ₹ 25.50

The cost of a book = $\mathbf{\xi}$ 60.75

The cost of a bag = ₹ 135.95

The total cost of all the things ₹ 222.20

So, total cost of all things is ₹ 222.20

c. The cost of a book = $\mathbf{\xi}$ 89.75

The cost of a pen = ₹ 25.00

total money spent = 114.75

Sambhav gave to shopkeeper = ₹ 200.00

he spent money = ₹ 114.75

Money should be get back ₹ 85.25

So, ₹85.25 should be get back.

Exercise 13.3

1. Find the product:

- a. $\mathbf{\xi} 61.25 \times 18 = \mathbf{\xi} \mathbf{1102.50}$
- b. $₹ 9.95 \times 34 = ₹ 338.30$

 $\begin{array}{c} 61.25 \\ \times 18 \\ 49000 \\ +61250 \\ 1102.50 \end{array}$

- $9.95 \times 34 \\ 3980 \\ + 29850 \\ 338.30$
- c. $\mathbf{\xi} 17.06 \times 25 = \mathbf{\xi} 426.50$
- d. ₹ 37.48 × 42 = ₹ **1574.16**
- $\begin{array}{c}
 17.06 \\
 \times 25 \\
 8530 \\
 +34120 \\
 426.50
 \end{array}$

- e. $\mathbf{\xi}$ 92.64 × 15 = $\mathbf{\xi}$ **1389.60**
- f. $\mathbf{\xi}$ 70.48 × 23 = $\mathbf{\xi}$ **1621.04**

92.64 × 15 46320 + 92640 1389.60 $\begin{array}{c} 70.48 \\ \times 23 \\ 21144 \\ +140960 \\ 1621.04 \end{array}$

2. Divide:

$$\begin{array}{r}
103.65 \\
5) 518.25 \\
\underline{-5} \\
18 \\
\underline{-15} \\
32 \\
\underline{-32} \\
25 \\
\underline{-25}
\end{array}$$

$$\begin{array}{r}
2053.46 \\
7)4106.92 \\
-4 \\
\hline
-10 \\
-10
\end{array}$$

$$\frac{-6}{9}$$
 $\frac{-8}{12}$

$$\begin{array}{r}
31.20 \\
5) 343.20 \\
-33 \\
\hline
13 \\
-11 \\
\hline
22 \\
-22 \\
\hline
08 \\
-0 \\
\hline
0
\end{array}$$

$$\begin{array}{r}
 2065.11 \\
 7)8260.44 \\
 -8 \\
 \hline
 26 \\
 -24 \\
 \hline
 20 \\
 -20 \\
 \hline
 4 \\
 -4 \\
 \hline
 04 \\
 4
\end{array}$$

$$\begin{array}{r}
312.48 \\
3) 937.44 \\
\underline{-9} \\
3 \\
\underline{-3} \\
7 \\
\underline{-6} \\
14 \\
\underline{-12} \\
24 \\
\underline{-24} \\
0
\end{array}$$

$$= 324.10$$

$$324.10$$

$$12)3889.20$$

$$-36$$

$$28$$

$$-24$$

$$49$$

$$-48$$

$$12$$

$$-12$$

$$0$$

$$-0$$

$$0$$

$$= 1024.88$$

$$1024.88$$

$$9)9223.92$$

$$-9$$

$$22$$

$$-18$$

$$43$$

$$-36$$

$$79$$

$$-72$$

$$-72$$

$$-72$$

$$0$$

$$= 210.30$$

$$9)3364.80$$

$$-32$$

$$16$$

$$-16$$

$$48$$

$$-48$$

$$-72$$

$$-72$$

$$-72$$

$$-72$$

13.50

6750

40500

472.50

3 5

3. Solve the following word problems.

a. The cost of 1 kg of rice = ₹ 13.50The cost of 35 kg of rice $= ₹ 13.50 \times 35$ = ₹ 472.50

So, the cost of 35 kg of rice is $\stackrel{?}{\sim}$ 472.50.

b. The price of a crayon packet is ₹ 16.15
 The price of 3 crayon pockets is ₹ 16.15 × 3 = ₹ 48.45
 Ria bought 3 crayon packets of the price ₹ 48.45
 So, Ria had to pay ₹ 48.45

- c. Total money was given to some friends = ₹ 1250.00 Each friend got = ₹ 250 250) 1250 Number of friends = $1250 \div 250$ <u>–</u> 1250 = 5 friends 0
 - So, 5 friends got the money.

a.

- 0.75 d. The cost of a postal stamp = 0.75× 50 The cost of 50 postal stamps = $\mathbf{\xi}$ 0.75 × 50 37.50 =₹37.50
- So, total cost of 50 postal stamps is ₹ 37.5 e. The cost of 25 packets of balloons = ₹ 300 =₹300 ÷ 25 The cost of 1 pocket of balloon =**₹**12 50 So, the cost of each packet of balloons is \ge 12. 0
 - Exercise 13.4

1. Read the bills to find the total amount and the money left over.

S. No.	Item	Quantity	Per kg (₹)	Cost (₹)
(i)	Pulse	1 kg	95.00	95.00
(ii)	Salt	$\frac{1}{2}$ kg	14.50	7.25
(iii)	Sugar	1 kg	40.00	40.00
(iv)	Coffee Powder	$\frac{1}{2}$ kg	24.00	6.00
			Total =	₹148.25

b.	S. No.	Item	Quantity	Per kg	Cost
	(i)	Pulse	$\frac{1}{2}$ kg	95.00	19.00
	(ii)	Salt	2 kg	14.50	172.00
				Total =	₹ 191.00

Money left over = ₹ (200 - 191) ₹ 29

c.	S. No.	Item	Quantity	Rate	Cost
	(i)	Comb	1	12.75	12.75
	(ii) Ribbon (iii) Clips		2 m	5.00	10.00
			6	10.50	63.00
	(iv)	Hair pins	2	7.00	14.00
	Total = ₹ 99.75				

2. Solve:

a. Karan has ₹ 139

The cost of a book is ₹ 197.75

The money that Karan needs to buy book = $\overline{\xi}$ (197.75 – 139.0) = $\overline{\xi}$ 58.75

So Karan needs ₹ 58.75 to buy ₹ 58.75

b. The cost of apples = ₹ 22.75

The shopkeeper Returned = ₹ 27.25.

She gave him money = ₹ (22.75 + 27.25) = ₹ 50.00

So, Kiran gave shopkeeper ₹ 50.

Fun with Maths

Make a bill for the following purchases made by Mrs Gautam at a grocery shop. also. Calculate the amount she gets back if she pays ₹1000.

Ans.

Item	Quantity	Cost per unit	Total Cost
Sugar	3 kg	₹38.25	₹114.75
Snacks	2	₹28.75	₹57.50
Flour	5 kg	₹22.50	₹1112.50
Dal	1 kg	₹88.00	₹88.00
Rice	3 kg	₹45.50	₹136.50
		Grand Total =	₹509.25

Multiple Choice Questions

Tick (\checkmark) the correct choice:

Ans. 1. a. ₹130.45 2. b. 20 3. a. ₹286.50 4. c. ₹372.12

Mental Maths

Measure the distance around the following by using a ruler or metre tape.

Ans. Do it yourself.

Mental Maths

Find the perimeter of each figure:

Ans. 1. 20 cm

2. 22 cm

3. 24 cm

4. 24 cm

Exercise 14.1

- 1. Find the perimeter of the following:
 - a. Perimeter = 8 + 8 + 8 + 8 = 32 cm
 - b. Perimeter = $2(20 + 40) = 2 \times 60 = 120$ cm
 - c. Perimeter = $4 \times 18 = 72$ cm
 - d. Perimeter = $2(3 + 2) = 2 \times 5 = 10 \text{ m}$
 - e. Perimeter = 18 + 18 + 12 + 20 + 12 = 80 cm
- 2. Find the perimeter of each figure. The side of each small square is 1 cm.
 - a. Perimeter = 3 + 2 + 2 + 1 + 3 + 2 + 2 + 5 = 20 cm

 - c. Perimeter = 3 + 1 + 3 + 2 + 6 + 3 = 18 cm
 - d. Perimeter = 2 + 1 + 2 + 1 + 1 + 1 + 2 + 1 + 1 + 2 = 14 cm
 - e. Perimeter = 3 + 14 + 1 + 2 + 1 + 1 + 3 + 1 + 1 + 2 + 1 + 1= 18 cm
 - f. Perimeter = 3 + 1 + 1 + 4 + 2 + 5 = 16 cm
- 3. Find the perimeter of the following figures :
 - a. Perimeter = 8 + 6 + 4 + 4 + 6 = 28 cm
 - b. Perimeter = $6 \times 3 = 18$ cm
 - c. Perimeter = 4 + 5 + 7 + 3 = 19 cm

Exercise 14.2

1. Find the perimeter of a rectangle whose :

Perimeter of a rectangle = 2 (length 1 + breadth b)

a. length = 24 cm, breadth = 17 cm

$$\therefore$$
 Perimeter P = 2 (1 + b) = 2 (24 + 17) = 2 × 41 = **82 cm**.

b. length = 42 m, breadth = 20 m

Perimeter
$$P = 2 (1 + b) = 2 (42 + 20) = 2 \times 62 = 124 \text{ m}$$

c. length = 36 cm, breadth = 15 cm

Perimter
$$P = 2(1 + b) = 2(36 + 15) = 2 \times 51 = 102$$
 cm

d. length = 18 m, breadth = 9 m

Perimeter
$$P = 2 (1 + b) = 2 (18 + 9) = 2 \times 27 = 54 \text{ m}$$

2. Find the perimeter of a square each of whose side is :

Peimeter of a square $P = 4 \times \text{side a}$

a. Side a = 14 cm

$$\therefore$$
 Peimeter P = $4 \times a = 4 \times 14 = 56$ cm

b. Side a = 35 cm

$$\therefore$$
 Peimeter P = $4 \times a = 4 \times 35 = 140$ cm

c. Side a = 17 m

$$\therefore$$
 Peimeter P = $4 \times a = 4 \times 17 = 68 \text{ m}$

d. Side a = 42 m

Peimeter
$$P = 4 \times 42 = 168 \text{ m}$$

3. Solve:

a. Length of a rectangular park l = 15 m and breadth b = 8 m

$$\therefore$$
 Peimeter of the park = 2 (1 + b) = 2 (15 + 8) = 2 × 23
= 46 m

Peimeter rum 46 m in 1 round around the park.

So, the distance he runs in 5 round = $46 \times 5 = 230$ m = 230×100 cm = 23000 cm

So, he runs everyday 23000 cm.

- b. Side of a square painting = 30 cm
 - \therefore Perimeter of painting = $4 \times 30 = 120$ cm = 1 m 20 cm.

So, the length of the frame of painting is 1 m 20 cm.

c. Length of rectangular football court l = 24 m breadth b of the court = 20 m

:. Perimeter
$$p = 2 (1 + b) = 2 (24 + 20) = 2 \times 44 = 88 \text{ m}$$

d. Length of rectangular field l = 18 mbreadth of rectangular field b = 12 m

:. Perimeter of the field
$$p = 2 (1 + b) = 2 (18 + 12) = 2 \times 30$$

= 60 m

So, 60 m length of the fence needed.

Exercise 14.3

Find the area and perimeter of these painting. The side of each square is 1 cm.

- a. Perimeter = $2(1+b) = 2(8+6) = 2 \times 14 = 28$ cm Area = $1 \times b = 8 \times 6 = 48$ sq. cm
- b. Perimeter = $2(1 + b) = 2(6 + 8) = 2 \times 14 = 28$ cm Area = $1 \times b = 6 \times 8 = 48$ sq. cm
- c. Perimeter = $2(1 + b) = 2(5 + 6) = 2 \times 11 = 22$ cm Area = $1 \times b = 5 \times 6 = 30$ sq. cm
- d. Perimeter = $2(1 + b) = 2(5 + 7) = 2 \times 12 = 24$ cm Area = $1 \times b = 5 \times 7 = 35$ sq. cm
- e. Perimeter = $2(1 + b) = 2(8 + 6) = 2 \times 14 = 28$ cm Area = $1 \times b = 8 \times 6 = 48$ sq. cm
- f. Perimeter = $2(1 + b) = 2(4 + 6) = 2 \times 10 = 20$ cm Area = $1 \times b = 4 \times 6 = 24$ sq. cm
- 2. Which of these fruits will occupy the highest area? Figure be will occupy the highest area.

Fun with Maths

Grand Parent's

Bed Room = 14 Units

Wash room = 6 Units

Study Room = 6 Units

Kids Room = 6 Units

Kitchen = 12 Units

Drawing Room = 18 Units

Bed room (Parents) = 15 Units

Dining Room = 15 Units

Multiple Choice Questions

Tick (✓) the correct choice:

- **Ans.** 1. c. 4 × side 2. b. 100 m 3. b. 60 cm 4. a. 2 m 80 cm
 - 5. a. Square 6. a. 3:4 7. c. 6x
 - 8. b. 1 sq.m = 10000 sq.cm

15 Data Handling

1. Represent the given information with the help of a pictograph. the marks obtained by Rohan in different subjects in unit test.

Ans. Use $1 \bigcirc = 10$ marks and $1 \bigcirc = 5$ marks

Name of Subject	Marks obtained		
Hindi			
English	0 0 0 0		
Maths	0 0 0 0 0		
Science	0 0		

2. The following information is about the number of students in classes from 1 to V.

Ans. Use 1 = 5 students

Class↓	Number of Students →	
I		
II	000000000	
III		
IV	00000	
V	00000000	

- a. Class 1 has the maximum number of students.
- b. Class iii has the minimum number of students.
- c. 20 students are more in class i than class iv.
- d. Total number of students is 190 in all classes.

3. Read the following bar graph. It shows the number of shells collected by five friends from seashare in Goa.

Now, answer the following questions:

- a. Kinjal collected the maximum number of sheels.
- b. 10 shells were collected by Reshma and Kinjal together.
- C. Aakrti collected the least number of shells.
- d. 270 shells were collected by five friends in all.

4. Members of a childrens club were asked to name their favourite tourist spot. Their choices are given below:

Tourist spot	Tally Mark	Number of Children
Shimla		3
Goa		6
Darjeeling		4
Nainital		4

- a. Goa is the most favourite tourist spot.
- b. Shimla is the least favourite tourist spot.
- c. 6 students like Goa.

Exercise 15.2

- 1. a. 15 students eat fruits in Class I.
 - 20 students eat fruits in Class II.
 - 10 students eat fruits in Class III.
 - 5 students eat fruits in Class IV.
 - 25 students eat fruits in Class V.
 - b. Maximum students of Class V eat fruits.
 - c. Minimum students of class IV eat fruits.
 - d. 75 students were surveyed in all.

2. The bar graph given below shows the number of children like different types of fruits observe the bar graph and answer the following questions.

- a. Guava is most liked by children.
- b. Orange is least liked by the children.
- c. 20 children like apple.
- d. 73 children depicted in the bar graph.

3. a.

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