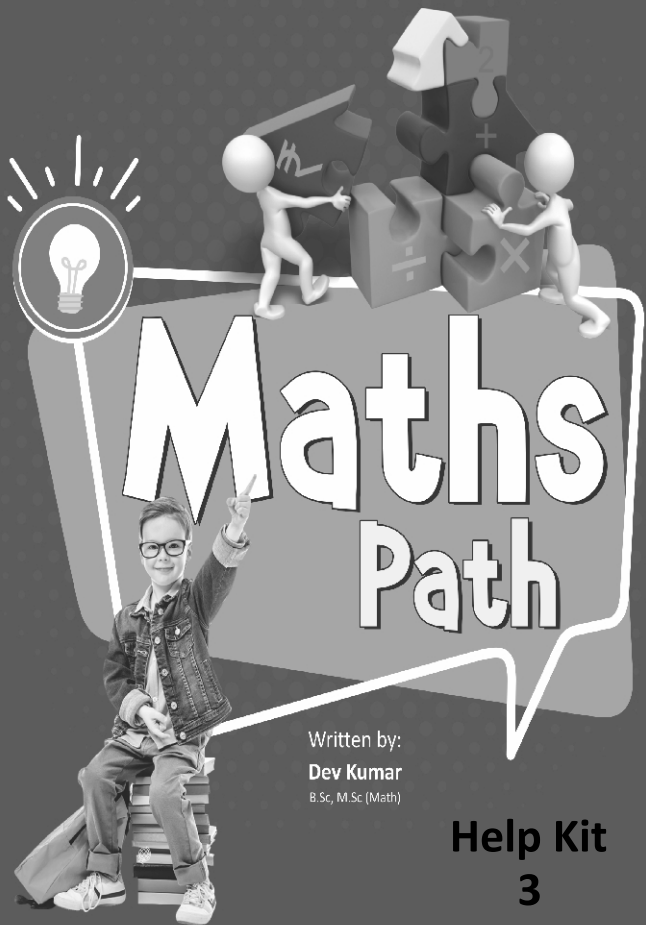




Based on the Syllabus prescribed by National Council
of Educational Research and Training (NCERT)



Maths Path

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B.Sc, M.Sc (Math)

Help Kit
3

Teacher's Manual

MATHEMATICS

Class-3

I. FOUR-DIGIT NUMBERS

EXERCISE I.1

1. (a) $2000 + 400 + 50 + 8 \longrightarrow$
- | Th | H | T | O |
|----|---|---|---|
| 2 | 4 | 5 | 8 |
-
- (b) $1000 + 500 + 6 \longrightarrow$
- | Th | H | T | O |
|----|---|---|---|
| 1 | 5 | 0 | 6 |
-
- (c) $1000 + 200 + 50 + 6 \longrightarrow$
- | Th | H | T | O |
|----|---|---|---|
| 1 | 2 | 5 | 6 |
-
- (d) $3000 + 40 + 5 \longrightarrow$
- | Th | H | T | O |
|----|---|---|---|
| 3 | 0 | 4 | 5 |
-
- (e) $1000 + 100 \longrightarrow$
- | Th | H | T | O |
|----|---|---|---|
| 1 | 1 | 0 | 0 |
-
- (f) $2000 + 100 + 30 \longrightarrow$
- | Th | H | T | O |
|----|---|---|---|
| 2 | 1 | 3 | 0 |

2. 10 hundreds
 10 hundreds
 + 4 hundred

$$= 10 \text{ hundreds} + 10 \text{ hundreds} + 4 \text{ hundreds}$$

$$= 1 \text{ thousand} + 1 \text{ thousand} + 4 \text{ hundreds}$$

$$= \boxed{2} \text{ thousand} + \boxed{4} \text{ hundreds}$$

EXERCISE I.2

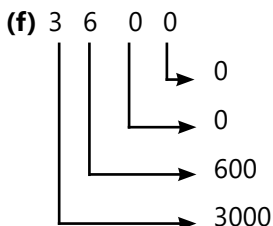
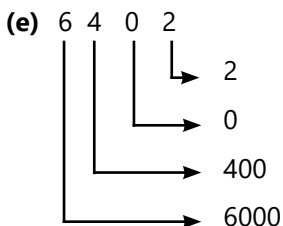
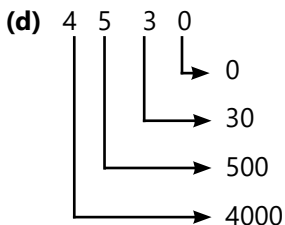
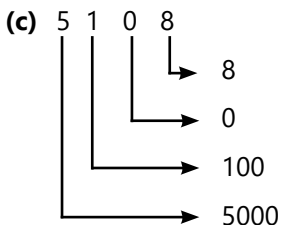
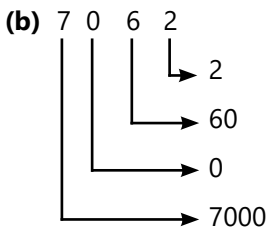
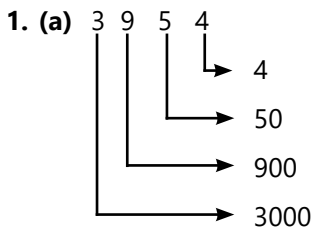
1. (a) 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350
 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390

- (b) 3601 3602 3603 3604 3605 3606 3607 3608 3609 3610
3611 3612 3613 3614 3615 3616 3617 3618 3619 3620
- (c) 5671 5672 5673 5674 5675 5676 5677 5678 5679 5680
5681 5682 5683 5684 5685 5686 5687 5688 5689 5690
- (d) 9951 9952 9953 9954 9955 9956 9957 9958 9959 9960
9961 9962 9963 9964 9965 9966 9967 9968 9969 9970
2. (a) 3560 3559 3558 3557 3556 3555 3554 3553 3552 3551
- (b) 7200 7199 7198 7197 7196 7195 7194 7193 7192 7191
- (c) 9999 9998 9997 9996 9995 9994 9993 9992 9991 9990
3. (a) Seven thousand two hundred ninety three.
- (b) Three thousand eight hundred forty nine.
- (c) Two thousand sixty five.
4. (a) $5000 + 300 + 84 = 5384$ (b) $2000 + 800 + 42 = 2842$
- (c) $4000 + 500 + 7 = 4507$

EXERCISE 1.3

- | | Predecessor | | Successor |
|--------|--------------------|-----|-------------------|
| 1. (a) | $521 - 1 = 520$ | (g) | $998 + 1 = 999$ |
| (b) | $1005 - 1 = 1004$ | (h) | $1489 + 1 = 1490$ |
| (c) | $4030 - 1 = 4029$ | (i) | $4429 + 1 = 4430$ |
| (d) | $9000 - 1 = 8999$ | (j) | $9009 + 1 = 9010$ |
| (e) | $3500 - 1 = 3499$ | (k) | $8119 + 1 = 8120$ |
| (f) | $4040 - 1 = 4039$ | (l) | $5099 + 1 = 5100$ |

EXERCISE I.4



2. (a) $5000 + 700 + 10 + 8 = 5718$

(b) $6000 + 800 + 20 + 9 = 6829$

(c) $8000 + 0 + 70 + 5 = 8075$

(d) $5000 + 200 + 0 + 0 = 5200$

(e) $7000 + 500 + 0 + 7 = 7507$

(f) $8000 + 800 + 40 + 8 = 8848$

3. (a) $5837 = 5 \text{ [th]} + 8 \text{ [h]} + 3 \text{ [t]} + 7 \text{ [o]}$
 $= 5000 + 800 + 30 + 7$

$$\begin{aligned} \text{(b)} \quad 4079 &= 4 \boxed{\text{th}} + 0 \boxed{\text{h}} + 7 \boxed{\text{t}} + 9 \boxed{\text{o}} \\ &= 4000 + 0 + 70 + 9 \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad 2005 &= 2 \boxed{\text{th}} + 0 \boxed{\text{h}} + 0 \boxed{\text{t}} + 5 \boxed{\text{o}} \\ &= 2000 + 0 + 0 + 5 \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad 5640 &= 5 \boxed{\text{th}} + 6 \boxed{\text{h}} + 4 \boxed{\text{t}} + 0 \boxed{\text{o}} \\ &= 5000 + 600 + 40 + 0 \end{aligned}$$

$$\begin{aligned} \text{(e)} \quad 6204 &= 6 \boxed{\text{th}} + 2 \boxed{\text{h}} + 0 \boxed{\text{t}} + 4 \boxed{\text{o}} \\ &= 6000 + 200 + 0 + 4 \end{aligned}$$

$$4. \text{(a)} \quad 7000 + 100 + 2 + 6 = 7126$$

$$\text{(b)} \quad 1000 + 200 + 5 = 1205$$

$$\text{(c)} \quad 6000 + 8 = 6008$$

$$\text{(d)} \quad 4000 + 50 + 7 = 4057$$

$$\text{(e)} \quad 9000 + 700 + 80 = 9780$$

EXERCISE 1.5

$$1. \text{(a)} \quad \boxed{1|2|4|9} \quad \boxed{9|7|8|9}$$

(4-digits) (3-digits)

$$\text{so, } 1249 > 978$$

$$\text{(b)} \quad \boxed{2|1|5|6} \quad \boxed{6|3|7|4}$$

$\rightarrow 2 < 6 \leftarrow$

$$\text{so, } 1256 > 6374$$

$$\text{(c)} \quad \boxed{7|1|2|4} \quad \boxed{7|6|3|9}$$

$\rightarrow 1 < 6 \leftarrow$

$$\text{so, } 7124 > 7639$$

$$\text{(d)} \quad \boxed{3|7|8|4} \quad \boxed{3|7|6|2}$$

$\rightarrow 8 > 6 \leftarrow$

$$\text{so, } 3784 > 3762$$

$$\text{(e)} \quad \boxed{2|0|5|0} \quad \boxed{2|0|4|0}$$

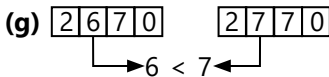
$\rightarrow 5 > 4 \leftarrow$

$$\text{so, } 2050 > 2040$$

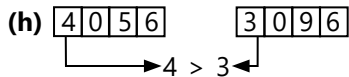
$$\text{(f)} \quad \boxed{5|2|8|7} \quad \boxed{5|2|8|3}$$

$\rightarrow 7 > 3 \leftarrow$

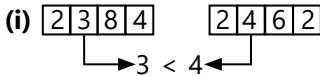
$$\text{so, } 5287 > 5283$$



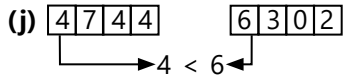
so, 2670 \lt 2770



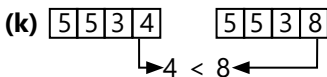
so, 4056 \gt 3096



so, 2384 \gt 2426



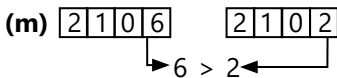
so, 4744 \gt 6302



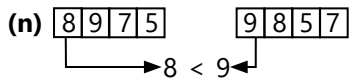
so, 5534 \lt 5538



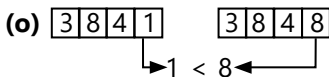
so, 1919 \lt 9119



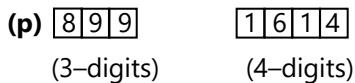
so, 2106 \gt 2102



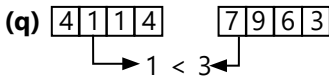
so, 8975 \lt 9857



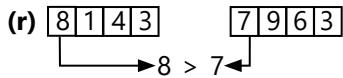
so, 3841 \lt 3848



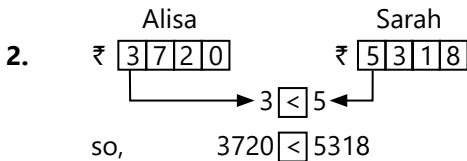
so, 899 \lt 1614



so, 4114 \gt 4130



so, 8143 \gt 7963



Hence, we can say that Sarah spent more money.

3. Frontier mail from, Delhi to Mumbai 2316 passengers
- Frontier mail from Mumbai to Delhi 2840 passengers
- $3 < 8$

so, $2316 < 2840$

Hence we can say that

Frontier mail from Delhi to Mumbai had less passengers.

EXERCISE 1.6

1. (a)
- | Th | H | T | O |
|----|---|---|---|
| 3 | 9 | 4 | 5 |
| 2 | 4 | 8 | 1 |
| 5 | 6 | 9 | 2 |

$5 > 3 > 2$

So, 5692 is the biggest number and

2481 is the smallest number.

- (b)
- | Th | H | T | O |
|----|---|---|---|
| 9 | 3 | 5 | 0 |
| 6 | 4 | 8 | 5 |
| 6 | 7 | 1 | 9 |
- | Th | H | T | O |
|----|---|---|---|
| 6 | 4 | 8 | 5 |
| 6 | 7 | 1 | 9 |
- $9 > 6$ same $4 < 7$

So, 9350 is the biggest number and

6485 is the smallest number.

(c)

Th	H	T	O
2	7	1	7
3	7	1	7
	4	9	8

→ $3 > 2$

So, 3717 is biggest number and
498 is the smallest number.

(d)

Th	H	T	O
7	9	6	3
6	8	1	0
8	0	3	4

→ $8 > 7 > 6$

So, 8034 is the biggest number and
6810 is the smallest number.

(e)

Th	H	T	O
1	0	5	2
2	1	1	1
2	0	0	1

→ $1 < 2$

Th	H	T	O
2	1	1	1
2	0	0	1

↓ same → $1 > 0$

So, 2111 is the biggest number and
1052 is the smallest number.

(f)

Th	H	T	O
6	2	1	3
7	0	0	1
3	3	6	3

→ $7 > 6 > 3$

So, 7001 is the biggest number
and 3363 is the smallest number.

(g)

Th	H	T	O
2	4	9	2
5	4	6	3
4	5	6	3

$5 > 4 > 2$

So, 5463 is the biggest number and
2492 is the smallest number.

(h)

Th	H	T	O
5	5	3	8
5	5	8	4
5	5	7	1

$8 > 7 > 3$

same same

So, 5584 is the biggest number and
5538 is the smallest number.

(i)

Th	H	T	O
4	3	4	3
3	4	3	4
4	4	3	3

$3 < 4$

So, 4433 is the biggest number and
3434 is the smallest number.

Th	H	T	O
4	3	4	3
4	4	3	3

$3 < 4$
or $4 > 3$

2. (a)

Th	H	T	O
4	9	7	7
7	4	9	0
4	7	9	2

$7 > 4$

Th	H	T	O
4	9	7	7
4	7	9	2

same $9 > 7$

So, $7490 > 4977 > 4792$
 or, $4792 < 4977 < 7490$

(b)

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

→ $5 < 8$

So, $5894 < 8112 < 8761$

Th	H	T	O
8	7	6	1
8	1	1	2

↓ same → $1 < 7$

(c)

Th	H	T	O
7	5	6	5
5	9	9	8
8	0	0	1

→ $5 < 7 < 8$

So, $5998 < 7565 < 8001$

(d)

Th	H	T	O
6	0	0	1
5	2	1	3
3	4	7	5

→ $3 < 5 < 6$

So, $3475 < 5213 < 6001$

3. (a)

Th	H	T	O
6	8	5	0
7	1	7	7
3	2	9	0

→ $7 > 6 > 3$

So, $7177 > 6850 > 3290$

(b)

Th	H	T	O
5	0	5	1
6	3	9	0
2	9	3	8

6 > 5 > 2

So, 6390 > 5051 > 2938

(c)

Th	H	T	O
5	9	6	1
4	7	5	4
6	1	8	0

6 > 5 > 4

So, 6180 > 5961 > 4754

(d)

Th	H	T	O
1	4	9	2
3	5	3	6
4	4	6	3

4 > 3 > 1

So, 4463 > 3536 > 1492

2. ROMAN NUMERALS

EXERCISE 2.1

1. (a) I V X II III VII VIII XI XII VI XIII XXI

1 5 10 2 3 7 8 11 12 6 13 21

XXV XXXIII XXXV

25 33 35

(b) IV IX XIV XIX XXIV XXIX XXXIV XXXIX

4 9 14 19 24 29 34 39

XVI XXVII XXVII XXXVIII

16 27 37 38

2. (a) 2 3 5 6 4 7 10 9 8 11 12 15 16 14 13 17 18
 II III V VI IV VII X IX VIII XI XII XV XVI XIV XIII XVII XVIII

(b) 20 – XX 22 – XXII 25 – XXV
 28 – XXVIII 19 – XIX 21 – XXI
 24 – XXIV 26 – XXVI 29 – XXIX
 34 – XXXIV 30 – XXX 35 – XXXV
 38 – XXXVIII 39 – XXXIX

3. (a) V > III (b) VI < VIII (c) IX < XI
 (d) VI < IX (e) XV < XX (f) V < VI
 (g) X > IX (h) XIX < XX (i) X X X V >
 XXXIV

4. (a) VI, IV, XI, IX, VIII IV, VI, VIII, IX, XI
 (b) VIII, XX, X, XVI, XIV, IX VIII, IX, X, XIV, XVI, XX

3. ADDITION OF NUMBERS

EXERCISE 3.1

(a)	Th H T O	(b)	Th H T O	(c)	Th H T O
	4 2 1 2		4 5 3 4		3 7 6 5
	+ 2 3 6 7		+ 4 3 6 5		+ 4 1 2 3
	<u>6 5 7 9</u>		<u>8 8 9 9</u>		<u>7 8 8 8</u>
(d)	Th H T O	(e)	Th H T O	(f)	Th H T O
	7 6 2 5		2 5 6 3		5 7 3 4
	+ 1 2 7 4		+ 3 4 2 5		+ 3 1 6 4
	<u>8 8 9 9</u>		<u>5 9 8 8</u>		<u>8 8 9 8</u>
(g)	Th H T O	(h)	Th H T O	(i)	Th H T O
	1 8 3 6		3 9 1 3		4 3 2 7
	+ 8 1 5 3		+ 6 0 7 6		+ 5 4 3 2
	<u>9 9 8 9</u>		<u>9 9 8 9</u>		<u>9 7 5 9</u>

$$\begin{array}{r}
 \text{(j)} \quad \text{Th H T O} \\
 \quad \quad 3 \ 4 \ 2 \\
 \quad \quad 4 \ 3 \ 3 \\
 + 5 \ 2 \ 2 \ 1 \\
 \hline
 \quad \quad 5 \ 9 \ 9 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(k)} \quad \text{Th H T O} \\
 \quad \quad \quad \quad 3 \ 2 \\
 \quad \quad \quad \quad 5 \ 1 \ 4 \\
 + 4 \ 4 \ 4 \ 2 \\
 \hline
 \quad \quad 4 \ 9 \ 8 \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(l)} \quad \text{Th H T O} \\
 \quad \quad 5 \ 0 \ 1 \ 4 \\
 \quad \quad \quad \quad 6 \ 2 \ 4 \\
 + \quad \quad \quad \quad 6 \ 1 \\
 \hline
 \quad \quad 5 \ 6 \ 9 \ 9
 \end{array}$$

EXERCISE 3.2

$$\begin{array}{r}
 \text{(a)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 4 \ 2 \ 5 \ 6 \\
 + 3 \ 8 \ 4 \ 9 \\
 \hline
 \quad \quad 8 \ 1 \ 0 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 3 \ 0 \ 2 \ 5 \\
 + 4 \ 9 \ 7 \ 5 \\
 \hline
 \quad \quad 8 \ 0 \ 0 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 3 \ 8 \ 4 \ 2 \\
 + 2 \ 6 \ 7 \ 8 \\
 \hline
 \quad \quad 6 \ 5 \ 2 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 2 \ 4 \ 3 \ 9 \\
 + 4 \ 7 \ 8 \ 1 \\
 \hline
 \quad \quad 7 \ 2 \ 2 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 6 \ 0 \ 5 \ 9 \\
 + 2 \ 9 \ 7 \ 3 \\
 \hline
 \quad \quad 9 \ 0 \ 3 \ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 6 \ 8 \ 6 \ 8 \\
 + 2 \ 1 \ 4 \ 6 \\
 \hline
 \quad \quad 9 \ 0 \ 1 \ 4
 \end{array}$$

EXERCISE 3.3

$$\begin{array}{r}
 \text{(a)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 5 \ 0 \ 2 \ 7 \\
 + 3 \ 9 \ 7 \ 3 \\
 \hline
 \quad \quad 9 \ 0 \ 0 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 8 \ 4 \ 7 \ 3 \\
 + \quad \quad 9 \ 2 \ 8 \\
 \hline
 \quad \quad 9 \ 4 \ 0 \ 1
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 6 \ 8 \ 0 \ 9 \\
 + 2 \ 1 \ 9 \ 6 \\
 \hline
 \quad \quad 9 \ 0 \ 0 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 8 \ 5 \ 4 \ 9 \\
 + \quad \quad 4 \ 5 \ 8 \\
 \hline
 \quad \quad 9 \ 0 \ 0 \ 7
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 4 \ 6 \ 1 \ 9 \\
 + 1 \ 3 \ 8 \ 7 \\
 \hline
 \quad \quad 6 \ 0 \ 0 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 5 \ 6 \ 5 \ 7 \\
 + 2 \ 3 \ 4 \ 8 \\
 \hline
 \quad \quad 8 \ 0 \ 0 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 5 \ 7 \ 3 \ 4 \\
 + 1 \ 7 \ 6 \ 8 \\
 \hline
 \quad \quad 7 \ 5 \ 0 \ 2
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 6 \ 7 \ 9 \ 5 \\
 + 1 \ 8 \ 0 \ 9 \\
 \hline
 \quad \quad 8 \ 6 \ 0 \ 4
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \text{Th H T O} \\
 \quad \quad \boxed{1} \ \boxed{1} \ \boxed{1} \\
 \quad \quad 4 \ 7 \ 3 \ 8 \\
 + 3 \ 9 \ 6 \ 2 \\
 \hline
 \quad \quad 8 \ 7 \ 0 \ 0
 \end{array}$$

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EXERCISE 3.4

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EXERCISE 3.5

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4. SUBTRACTION OF NUMBERS

EXERCISE 4.1

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EXERCISE 4.2

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EXERCISE 4.3

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$$\begin{array}{r}
 \text{(g)} \quad \text{Th H T O} \\
 \quad \quad \boxed{5} \quad \boxed{12} \\
 \quad \quad \cancel{6} \quad \cancel{2} \quad 9 \quad 7 \\
 \quad \quad \underline{- 3 \quad 9 \quad 4 \quad 5} \\
 \quad \quad \underline{2 \quad 3 \quad 5 \quad 2}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \text{Th H T O} \\
 \quad \quad \boxed{6} \quad \boxed{12} \\
 \quad \quad \cancel{7} \quad \cancel{3} \quad 6 \quad 4 \\
 \quad \quad \underline{- 3 \quad 8 \quad 2 \quad 4} \\
 \quad \quad \underline{3 \quad 5 \quad 4 \quad 0}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \text{Th H T O} \\
 \quad \quad \boxed{7} \quad \boxed{14} \\
 \quad \quad \cancel{8} \quad \cancel{4} \quad 5 \quad 3 \\
 \quad \quad \underline{- 2 \quad 7 \quad 3 \quad 0} \\
 \quad \quad \underline{5 \quad 7 \quad 2 \quad 3}
 \end{array}$$

$$\begin{array}{r}
 \text{(j)} \quad \text{Th H T O} \\
 \quad \quad \boxed{4} \quad \boxed{13} \\
 \quad \quad \cancel{5} \quad \cancel{3} \quad 6 \quad 9 \\
 \quad \quad \underline{- 2 \quad 6 \quad 3 \quad 4} \\
 \quad \quad \underline{2 \quad 7 \quad 3 \quad 5}
 \end{array}$$

$$\begin{array}{r}
 \text{(k)} \quad \text{Th H T O} \\
 \quad \quad \boxed{2} \quad \boxed{15} \\
 \quad \quad \cancel{3} \quad \cancel{5} \quad 4 \quad 8 \\
 \quad \quad \underline{- 2 \quad 8 \quad 2 \quad 6} \\
 \quad \quad \underline{7 \quad 2 \quad 2}
 \end{array}$$

$$\begin{array}{r}
 \text{(l)} \quad \text{Th H T O} \\
 \quad \quad \boxed{3} \quad \boxed{16} \\
 \quad \quad \cancel{4} \quad \cancel{6} \quad 5 \quad 9 \\
 \quad \quad \underline{- 3 \quad 9 \quad 3 \quad 7} \\
 \quad \quad \underline{7 \quad 2 \quad 2}
 \end{array}$$

EXERCISE 4.4

$$\begin{array}{r}
 \text{(a)} \quad \text{Th H T O} \\
 \quad \quad \boxed{16} \quad \boxed{13} \\
 \quad \quad \cancel{7} \quad \cancel{6} \quad \cancel{3} \quad 18 \\
 \quad \quad \cancel{8} \quad \cancel{7} \quad \cancel{4} \quad \cancel{8} \\
 \quad \quad \underline{- 5 \quad 8 \quad 5 \quad 9} \\
 \quad \quad \underline{2 \quad 8 \quad 8 \quad 9}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \text{Th H T O} \\
 \quad \quad \boxed{13} \quad \boxed{12} \\
 \quad \quad \cancel{6} \quad \cancel{3} \quad \cancel{2} \quad 16 \\
 \quad \quad \cancel{7} \quad \cancel{4} \quad \cancel{3} \quad \cancel{6} \\
 \quad \quad \underline{- 4 \quad 6 \quad 3 \quad 7} \\
 \quad \quad \underline{2 \quad 7 \quad 9 \quad 9}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \text{Th H T O} \\
 \quad \quad \boxed{14} \quad \boxed{18} \\
 \quad \quad \cancel{8} \quad \cancel{4} \quad \cancel{8} \quad 13 \\
 \quad \quad \cancel{9} \quad \cancel{5} \quad \cancel{9} \quad \cancel{3} \\
 \quad \quad \underline{- 6 \quad 7 \quad 9 \quad 8} \\
 \quad \quad \underline{2 \quad 7 \quad 9 \quad 5}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{Th H T O} \\
 \quad \quad \boxed{13} \quad \boxed{17} \\
 \quad \quad \cancel{5} \quad \cancel{3} \quad \cancel{7} \quad 10 \\
 \quad \quad \cancel{6} \quad \cancel{4} \quad \cancel{8} \quad \cancel{0} \\
 \quad \quad \underline{- 3 \quad 7 \quad 8 \quad 5} \\
 \quad \quad \underline{2 \quad 6 \quad 9 \quad 5}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{Th H T O} \\
 \quad \quad \boxed{13} \quad \boxed{12} \\
 \quad \quad \cancel{5} \quad \cancel{3} \quad \cancel{2} \quad 12 \\
 \quad \quad \cancel{6} \quad \cancel{4} \quad \cancel{3} \quad \cancel{2} \\
 \quad \quad \underline{- 4 \quad 8 \quad 4 \quad 8} \\
 \quad \quad \underline{1 \quad 5 \quad 8 \quad 4}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{Th H T O} \\
 \quad \quad \boxed{11} \quad \boxed{12} \\
 \quad \quad \cancel{5} \quad \cancel{1} \quad \cancel{2} \quad 10 \\
 \quad \quad \cancel{6} \quad \cancel{2} \quad \cancel{3} \quad \cancel{0} \\
 \quad \quad \underline{- 4 \quad 4 \quad 3 \quad 4} \\
 \quad \quad \underline{1 \quad 7 \quad 9 \quad 6}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \text{Th H T O} \\
 \quad \quad \boxed{} \quad \boxed{} \\
 \quad \quad \cancel{5} \quad \cancel{12} \quad \cancel{8} \quad 10 \\
 \quad \quad \cancel{6} \quad \cancel{2} \quad \cancel{9} \quad \cancel{0} \\
 \quad \quad \underline{- 2 \quad 9 \quad 3 \quad 5} \\
 \quad \quad \underline{3 \quad 3 \quad 5 \quad 5}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \text{Th H T O} \\
 \quad \quad \boxed{} \quad \boxed{} \\
 \quad \quad \cancel{8} \quad \cancel{13} \quad \cancel{5} \quad 13 \\
 \quad \quad \cancel{9} \quad \cancel{3} \quad \cancel{6} \quad \cancel{3} \\
 \quad \quad \underline{- 6 \quad 9 \quad 0 \quad 6} \\
 \quad \quad \underline{2 \quad 4 \quad 5 \quad 7}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \text{Th H T O} \\
 \quad \quad \boxed{14} \quad \boxed{} \\
 \quad \quad \cancel{2} \quad \cancel{4} \quad \cancel{16} \\
 \quad \quad \cancel{3} \quad \cancel{5} \quad \cancel{6} \quad 9 \\
 \quad \quad \underline{- 1 \quad 7 \quad 8 \quad 7} \\
 \quad \quad \underline{1 \quad 7 \quad 8 \quad 2}
 \end{array}$$

EXERCISE 4.5

<p>(a) Th H T O</p> $\begin{array}{r} \square \square 9 \\ 7 \ 10 \ 15 \\ 9 \ 8 \ 0 \ 5 \\ -4 \ 5 \ 6 \ 7 \\ \hline 5 \ 2 \ 3 \ 8 \end{array}$	<p>(b) Th H T O</p> $\begin{array}{r} \square \square 9 \\ 2 \ 10 \ 10 \\ 4 \ 3 \ 0 \ 0 \\ -2 \ 1 \ 4 \ 5 \\ \hline 2 \ 1 \ 5 \ 5 \end{array}$	<p>(c) Th H T O</p> $\begin{array}{r} \square \square 9 \\ 6 \ 10 \ 11 \\ 5 \ 7 \ 0 \ 1 \\ -3 \ 2 \ 5 \ 6 \\ \hline 2 \ 4 \ 4 \ 5 \end{array}$
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<p>(d) Th H T O</p> $\begin{array}{r} \square \square 9 \\ 5 \ 10 \ 14 \\ 7 \ 6 \ 0 \ 4 \\ -4 \ 5 \ 5 \ 6 \\ \hline 3 \ 0 \ 4 \ 8 \end{array}$	<p>(e) Th H T O</p> $\begin{array}{r} \square \square 9 \\ 7 \ 10 \ 10 \\ 5 \ 8 \ 0 \ 0 \\ -2 \ 7 \ 4 \ 3 \\ \hline 3 \ 0 \ 5 \ 7 \end{array}$	<p>(f) Th H T O</p> $\begin{array}{r} \square \square 9 \\ 5 \ 10 \ 12 \\ 7 \ 6 \ 0 \ 2 \\ -3 \ 4 \ 1 \ 7 \\ \hline 4 \ 1 \ 8 \ 5 \end{array}$
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<p>(g) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 2 \ 10 \ 10 \ 10 \\ 3 \ 0 \ 0 \ 0 \\ -1 \ 9 \ 3 \ 4 \\ \hline 1 \ 0 \ 6 \ 6 \end{array}$	<p>(h) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 3 \ 10 \ 10 \ 10 \\ 4 \ 0 \ 0 \ 0 \\ -2 \ 6 \ 3 \ 8 \\ \hline 1 \ 3 \ 6 \ 2 \end{array}$	<p>(i) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 4 \ 10 \ 10 \ 10 \\ 5 \ 0 \ 0 \ 0 \\ -2 \ 8 \ 7 \ 3 \\ \hline 2 \ 1 \ 2 \ 7 \end{array}$
--	--	--

<p>(j) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 5 \ 10 \ 10 \ 10 \\ 6 \ 0 \ 0 \ 0 \\ - \quad 9 \ 7 \ 2 \\ \hline 5 \ 0 \ 2 \ 8 \end{array}$	<p>(k) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 6 \ 10 \ 10 \ 11 \\ 7 \ 0 \ 0 \ 1 \\ -3 \ 9 \ 8 \ 4 \\ \hline 3 \ 0 \ 1 \ 7 \end{array}$	<p>(l) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 7 \ 10 \ 10 \ 13 \\ 8 \ 0 \ 0 \ 3 \\ -3 \ 6 \ 2 \ 9 \\ \hline 4 \ 3 \ 7 \ 4 \end{array}$
---	--	--

<p>(m) Th H T O</p> $\begin{array}{r} \square 9 \square \\ 8 \ 10 \ 10 \ 17 \\ 9 \ 0 \ 0 \ 7 \\ -7 \ 1 \ 1 \ 8 \\ \hline 1 \ 8 \ 8 \ 9 \end{array}$	<p>(n) Th H T O</p> $\begin{array}{r} \square 15 \square \\ 6 \ 5 \ 10 \ 10 \\ 7 \ 6 \ 0 \ 0 \\ -5 \ 7 \ 3 \ 4 \\ \hline 1 \ 8 \ 6 \ 6 \end{array}$	<p>(o) Th H T O</p> $\begin{array}{r} \square 14 \square \\ 8 \ 4 \ 10 \ 14 \\ 9 \ 5 \ 0 \ 4 \\ -3 \ 6 \ 2 \ 5 \\ \hline 5 \ 8 \ 7 \ 9 \end{array}$
--	--	--

EXERCISE 4.6

$$\begin{array}{r}
 \text{1.} \quad \text{Th H T O} \\
 \quad \quad \boxed{14} \boxed{11} \\
 \quad \quad 1 \ 4 \ 1 \ 10 \\
 \quad \quad 2 \ 5 \ 2 \ 0 \\
 \quad \quad - 1 \ 8 \ 5 \ 6 \\
 \hline
 \quad \quad 6 \ 6 \ 4
 \end{array}$$

$$\begin{array}{r}
 \text{2.} \quad \text{Th H T O} \\
 \quad \quad \boxed{17} \boxed{9} \\
 \quad \quad 4 \ 7 \ 10 \ 16 \\
 \quad \quad 5 \ 8 \ 0 \ 6 \\
 \quad \quad - 3 \ 9 \ 3 \ 7 \\
 \hline
 \quad \quad 1 \ 8 \ 6 \ 9
 \end{array}$$

$$\begin{array}{r}
 \text{3.} \quad \text{Th H T O} \\
 \quad \quad \boxed{9} \boxed{9} \\
 \quad \quad 4 \ 10 \ 10 \ 10 \\
 \quad \quad 5 \ 0 \ 0 \ 0 \\
 \quad \quad - 2 \ 5 \ 3 \ 5 \\
 \hline
 \quad \quad 2 \ 4 \ 6 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{4.} \quad \text{Th H T O} \\
 \quad \quad \boxed{7} \boxed{14} \\
 \quad \quad 8 \ 8 \ 4 \ 8 \\
 \quad \quad - 8 \ 5 \ 9 \ 8 \\
 \hline
 \quad \quad 2 \ 5 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{5.} \quad \text{Th H T O} \\
 \quad \quad \boxed{13} \boxed{14} \\
 \quad \quad 1 \ 3 \ 4 \ 10 \\
 \quad \quad 2 \ 4 \ 5 \ 0 \\
 \quad \quad - 1 \ 4 \ 7 \ 5 \\
 \hline
 \quad \quad 9 \ 7 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{6.} \quad \text{Th H T O} \\
 \quad \quad \boxed{11} \boxed{13} \\
 \quad \quad 6 \ 1 \ 3 \ 10 \\
 \quad \quad 7 \ 2 \ 4 \ 0 \\
 \quad \quad - 4 \ 6 \ 5 \ 8 \\
 \hline
 \quad \quad 2 \ 5 \ 8 \ 2
 \end{array}$$

5. MULTIPLICATION OF NUMBERS**EXERCISE 5.1**

$$\begin{array}{r}
 \text{(a)} \quad \text{H T O} \\
 \quad \quad \boxed{2} \boxed{2} \\
 \quad \quad 1 \ 4 \ 5 \\
 \quad \quad \times 5 \\
 \hline
 \quad \quad 7 \ 2 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \text{H T O} \\
 \quad \quad \boxed{2} \boxed{2} \\
 \quad \quad 2 \ 8 \ 9 \\
 \quad \quad \times 3 \\
 \hline
 \quad \quad 8 \ 6 \ 7
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \text{H T O} \\
 \quad \quad \boxed{1} \boxed{1} \\
 \quad \quad 4 \ 6 \ 8 \\
 \quad \quad \times 2 \\
 \hline
 \quad \quad 9 \ 3 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{H T O} \\
 \quad \quad \boxed{3} \boxed{2} \\
 \quad \quad 1 \ 8 \ 7 \\
 \quad \quad \times 4 \\
 \hline
 \quad \quad 7 \ 4 \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{H T O} \\
 \quad \quad \boxed{1} \boxed{2} \\
 \quad \quad 2 \ 5 \ 7 \\
 \quad \quad \times 3 \\
 \hline
 \quad \quad 7 \ 7 \ 1
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{H T O} \\
 \quad \quad \boxed{4} \boxed{} \\
 \quad \quad 1 \ 8 \ 0 \\
 \quad \quad \times 5 \\
 \hline
 \quad \quad 9 \ 0 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \text{H T O} \\
 \quad \quad \boxed{1} \boxed{1} \\
 \quad \quad 3 \ 8 \ 5 \\
 \quad \quad \times 2 \\
 \hline
 \quad \quad 7 \ 7 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \text{H T O} \\
 \quad \quad \boxed{3} \boxed{3} \\
 \quad \quad 1 \ 6 \ 6 \\
 \quad \quad \times 6 \\
 \hline
 \quad \quad 9 \ 9 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \text{H T O} \\
 \quad \quad \boxed{2} \boxed{2} \\
 \quad \quad 1 \ 3 \ 4 \\
 \quad \quad \times 7 \\
 \hline
 \quad \quad 9 \ 3 \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(j)} \quad \begin{array}{r} \text{H T O} \\ \boxed{1} \boxed{6} \\ 1 \ 1 \ 8 \\ \times 8 \\ \hline 9 \ 4 \ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(k)} \quad \begin{array}{r} \text{H T O} \\ \square \ \boxed{7} \\ 1 \ 0 \ 8 \\ \times 9 \\ \hline 9 \ 7 \ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(l)} \quad \begin{array}{r} \text{H T O} \\ \boxed{4} \ \boxed{4} \\ 1 \ 9 \ 9 \\ \times 5 \\ \hline 9 \ 9 \ 5 \end{array}
 \end{array}$$

EXERCISE 5.2

$$\begin{array}{r}
 \text{(a)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{1} \ \boxed{1} \\ 5 \ 4 \ 6 \\ \times 3 \\ \hline 1 \ 6 \ 3 \ 8 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{2} \ \boxed{1} \\ 4 \ 7 \ 3 \\ \times 3 \\ \hline 1 \ 8 \ 9 \ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{1} \ \boxed{5} \\ 8 \ 2 \ 9 \\ \times 6 \\ \hline 4 \ 9 \ 7 \ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{1} \ \boxed{3} \\ 9 \ 2 \ 7 \\ \times 5 \\ \hline 4 \ 6 \ 3 \ 5 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{6} \ \boxed{4} \\ 8 \ 7 \ 6 \\ \times 8 \\ \hline 7 \ 0 \ 0 \ 8 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{8} \ \boxed{8} \\ 9 \ 9 \ 9 \\ \times 9 \\ \hline 8 \ 9 \ 9 \ 1 \end{array}
 \end{array}$$

EXERCISE 5.3

1. (a) $7 \times 70 = \boxed{490}$ (b) $9 \times 50 = \boxed{450}$ (c) $3 \times 60 = \boxed{180}$
 (d) $20 \times 80 = \boxed{1600}$ (e) $8 \times 600 = \boxed{4800}$ (f) $5 \times 400 = \boxed{2000}$
2. (a) $48 \times 10 = \boxed{480}$ (b) $750 \times 10 = \boxed{7500}$ (c) $486 \times 10 = \boxed{4860}$
 (d) $58 \times 100 = \boxed{5800}$ (e) $60 \times 100 = \boxed{6000}$ (f) $5 \times 1000 = \boxed{5000}$
3. Do it yourself

EXERCISE 5.4

$$\begin{array}{r}
 \text{(a)} \quad \begin{array}{r} \text{Th H T O} \\ \boxed{1} \ \boxed{2} \\ \boxed{1} \ \square \\ 3 \ 6 \\ \times 2 \ 4 \\ \hline 1 \ 4 \ 4 \\ 7 \ 2 \ 0 \\ \hline 8 \ 6 \ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{Th H T O} \\ \square \ \boxed{4} \ \boxed{3} \ \square \\ \boxed{1} \ \square \ \square \ \square \\ 5 \ 4 \\ \times 2 \ 8 \\ \hline 4 \ 3 \ 2 \\ 1 \ 0 \ 8 \ 2 \\ \hline 1 \ 5 \ 1 \ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{Th H T O} \\ \square \ \square \ \boxed{2} \ \square \\ \boxed{3} \ \boxed{4} \ \square \ \square \\ 3 \ 5 \\ \times 9 \ 4 \\ \hline 1 \ 4 \ 0 \\ 3 \ 1 \ 5 \ 0 \\ \hline 3 \ 2 \ 9 \ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 4 & 1 & \square \\ 2 & \square & \square & \square \\ \hline & & 6 & 2 \\ & \times & 4 & 7 \\ \hline & 4 & 3 & 4 \\ 2 & 4 & 8 & 0 \\ \hline 2 & 9 & 1 & 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 2 & 3 & \square \\ 2 & 3 & \square & \square \\ \hline & & 5 & 8 \\ & \times & 4 & 4 \\ \hline & 2 & 3 & 2 \\ 2 & 3 & 2 & 0 \\ \hline 2 & 5 & 5 & 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 2 & 2 & \square \\ 3 & 4 & \square & \square \\ \hline & & 7 & 9 \\ & \times & 5 & 3 \\ \hline & 2 & 3 & 7 \\ 3 & 9 & 5 & 0 \\ \hline 4 & 1 & 8 & 7 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 1 & \square & \square \\ 5 & 2 & \square & \square \\ \hline & & 8 & 4 \\ & \times & 6 & 2 \\ \hline & 1 & 6 & 8 \\ 5 & 0 & 4 & 0 \\ \hline 5 & 2 & 0 & 8 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 2 & 3 & \square \\ 1 & 2 & \square & \square \\ \hline & & 3 & 5 \\ & \times & 4 & 6 \\ \hline & 2 & 1 & 0 \\ 1 & 4 & 0 & 0 \\ \hline 1 & 6 & 1 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 7 & 2 & \square \\ 3 & 1 & \square & \square \\ \hline & & 9 & 3 \\ & \times & 4 & 8 \\ \hline & 7 & 4 & 4 \\ 3 & 7 & 2 & 0 \\ \hline 4 & 4 & 6 & 4 \end{array}
 \end{array}$$

EXERCISE 5.5

$$\begin{array}{r}
 \text{(a)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ 2 & 3 & 3 & \square \\ 6 & 1 & \square & \square \\ \hline & & 3 & 4 & 5 \\ & \times & 2 & 7 \\ \hline & 2 & 4 & 1 & 5 \\ 6 & 9 & 0 & 0 \\ \hline 9 & 3 & 1 & 5 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ 3 & 6 & 5 & \square \\ \square & \square & \square & \square \\ \hline & & 4 & 8 & 7 \\ & \times & 1 & 8 \\ \hline & 3 & 8 & 9 & 6 \\ 4 & 8 & 7 & 0 \\ \hline 8 & 7 & 6 & 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 1 & 1 & \square \\ 2 & 2 & \square & \square \\ \hline & & 2 & 9 & 8 \\ & \times & 3 & 2 \\ \hline & 5 & 9 & 6 \\ 8 & 9 & 4 & 0 \\ \hline 9 & 5 & 3 & 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ 2 & 3 & 3 & \square \\ \square & \square & \square & \square \\ \hline & & 6 & 7 & 8 \\ & \times & 1 & 4 \\ \hline & 2 & 7 & 1 & 2 \\ 6 & 7 & 8 & 0 \\ \hline 9 & 4 & 9 & 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ 2 & 4 & 1 & \square \\ 1 & \square & \square & \square \\ \hline & & 2 & 5 & 2 \\ & \times & 3 & 8 \\ \hline & 2 & 0 & 1 & 6 \\ 7 & 5 & 6 & 0 \\ \hline 9 & 5 & 7 & 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ \square & 3 & 2 & \square \\ 1 & \square & \square & \square \\ \hline & & 3 & 6 & 4 \\ & \times & 2 & 6 \\ \hline & 2 & 1 & 8 & 4 \\ 7 & 2 & 8 & 0 \\ \hline 9 & 4 & 6 & 4 \end{array}
 \end{array}$$

(g)

Th	H	T	O
□	4	6	□
□	□	□	□
	5	6	9
	×	1	7
<hr/>			
3	9	8	3
5	6	9	0
<hr/>			
9	6	7	3

(h)

Th	H	T	O
□	3	1	□
□	□	□	□
	3	4	2
	×	2	8
<hr/>			
2	7	3	6
6	8	4	0
<hr/>			
9	5	7	6

(i)

Th	H	T	O
2	3	1	□
1	□	□	□
	2	4	2
	×	3	9
<hr/>			
2	1	7	8
7	2	6	0
<hr/>			
9	4	3	8

EXERCISE 5.6

1.

Th	H	T	O
□	2	7	□
□	□	□	□
	2	9	
	×	1	8
<hr/>			
2	3	2	
+	2	9	0
<hr/>			
5	2	2	

2.

Th	H	T	O
□	□	1	□
□	□	□	□
	1	2	
	×	4	8
<hr/>			
	9	6	
+	4	8	0
<hr/>			
5	7	6	

3.

Th	H	T	O
□	□	4	□
□	1	□	□
	3	6	
	×	2	7
<hr/>			
	2	5	2
+	7	2	0
<hr/>			
9	7	2	

4.

Th	H	T	O
□	3	2	□
1	1	□	□
	1	6	5
	×	2	5
<hr/>			
	8	2	5
+	3	3	0
<hr/>			
4	1	2	5

5.

Th	H	T	O
□	1	4	□
1	4	□	□
	1	2	8
	×	5	6
<hr/>			
	7	6	8
6	4	0	0
<hr/>			
7	1	6	8

6.

Th	H	T	O
□	4	1	□
1	2	□	□
	4	8	
	×	3	9
<hr/>			
	4	3	2
1	4	4	0
<hr/>			
1	8	7	2

6. DIVISION OF NUMBERS

EXERCISE 6.1

(a) $150 \div 10 = \boxed{15}$ (b) $340 \div 10 = \boxed{34}$

(c) $510 \div 10 = \boxed{51}$ (d) $1600 \div 10 = \boxed{160}$

(e) $1740 \div 10 = \boxed{174}$ (f) $9130 \div 10 = \boxed{913}$

- (g) $6400 \div 100 = \boxed{64}$ (h) $3000 \div 100 = \boxed{30}$
 (i) $5300 \div 100 = \boxed{53}$ (j) $7000 \div 1000 = \boxed{7}$
 (k) $8000 \div 2000 = \boxed{4}$ (l) $9000 \div 3000 = \boxed{3}$
 (m) $800 \div 20 = \boxed{40}$ (n) $1800 \div 300 = \boxed{6}$
 (o) $7200 \div 800 = \boxed{9}$ (p) $4000 \div 80 = \boxed{50}$
 (q) $5200 \div 130 = \boxed{40}$ (r) $8400 \div 1400 = \boxed{6}$

EXERCISE 6.2

- (a)
$$\begin{array}{r} \text{H T O} \\ 1 \ 2 \ 2 \\ 4 \overline{) 4 \ 8 \ 8} \\ \underline{4} \\ 0 \ 8 \\ \underline{- \ 8} \\ 0 \ 8 \\ \underline{- \ 8} \\ 0 \end{array}$$
- (b)
$$\begin{array}{r} \text{H T O} \\ 1 \ 2 \ 3 \\ 3 \overline{) 3 \ 6 \ 9} \\ \underline{3} \\ 0 \ 6 \\ \underline{- \ 6} \\ 0 \ 9 \\ \underline{- \ 9} \\ 0 \end{array}$$
- (c)
$$\begin{array}{r} \text{H T O} \\ 2 \ 3 \ 4 \\ 2 \overline{) 4 \ 6 \ 8} \\ \underline{4} \\ 0 \ 6 \\ \underline{- \ 6} \\ 0 \ 8 \\ \underline{- \ 8} \\ 0 \end{array}$$
- (d)
$$\begin{array}{r} \text{H T O} \\ 1 \ 3 \ 0 \\ 3 \overline{) 3 \ 9 \ 0} \\ \underline{3} \\ 0 \ 9 \\ \underline{- \ 9} \\ 0 \ 0 \\ \underline{- \ 0} \\ 0 \end{array}$$
- (e)
$$\begin{array}{r} \text{H T O} \\ 1 \ 2 \ 0 \\ 4 \overline{) 4 \ 8 \ 3} \\ \underline{4} \\ 0 \ 8 \\ \underline{- \ 8} \\ 0 \ 3 \end{array}$$
- (f)
$$\begin{array}{r} \text{H T O} \\ 2 \ 0 \ 2 \\ 3 \overline{) 6 \ 0 \ 8} \\ \underline{6} \\ 0 \ 0 \\ \underline{- \ 0} \\ 0 \ 8 \\ \underline{- \ 6} \\ 2 \end{array}$$

EXERCISE 6.3

- (a)
$$\begin{array}{r} \text{H T O} \\ 8 \ 6 \\ 4 \overline{) 3 \ 4 \ 7} \\ \underline{- \ 3 \ 2} \\ 0 \ 2 \ 7 \\ \underline{- \ 2 \ 4} \\ 3 \end{array}$$
- (b)
$$\begin{array}{r} \text{H T O} \\ 7 \ 1 \\ 8 \overline{) 5 \ 7 \ 5} \\ \underline{- \ 5 \ 6} \\ 0 \ 1 \ 5 \\ \underline{- \ 8} \\ 7 \end{array}$$
- (c)
$$\begin{array}{r} \text{H T O} \\ 9 \ 3 \\ 2 \overline{) 8 \ 3 \ 9} \\ \underline{- \ 8 \ 1} \\ 0 \ 2 \ 9 \\ \underline{- \ 2 \ 7} \\ 2 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} 1 \ 4 \ 8 \\ 5 \overline{) 7 \ 4 \ 3} \\ \underline{-5} \\ 2 \ 4 \\ \underline{-2 \ 0} \\ 4 \ 3 \\ \underline{4 \ 0} \\ 3 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} 1 \ 2 \ 0 \\ 8 \overline{) 9 \ 6 \ 7} \\ \underline{-8} \\ 1 \ 6 \\ \underline{-1 \ 6} \\ 0 \ 7 \\ \underline{-0} \\ 7 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} 1 \ 0 \ 9 \\ 7 \overline{) 7 \ 6 \ 6} \\ \underline{-7} \\ 0 \ 6 \ 6 \\ \underline{-6 \ 3} \\ 3 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{r} \text{Th H T O} \\ 9 \ 3 \ 7 \\ 4 \overline{) 7 \ 5 \ 0 \ 2} \\ \underline{-7 \ 2} \\ 3 \ 0 \\ \underline{-2 \ 4} \\ 6 \ 2 \\ \underline{-5 \ 6} \\ 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} 1 \ 1 \ 4 \ 8 \\ 7 \overline{) 8 \ 0 \ 3 \ 6} \\ \underline{-7} \\ 1 \ 0 \\ \underline{-7} \\ 3 \ 3 \\ \underline{-2 \ 8} \\ 5 \ 6 \\ \underline{5 \ 6} \\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{r} 1 \ 5 \ 2 \ 0 \\ 6 \overline{) 9 \ 1 \ 2 \ 5} \\ \underline{-6} \\ 3 \ 1 \\ \underline{3 \ 0} \\ 1 \ 2 \\ \underline{-1 \ 2} \\ 0 \ 5 \\ \underline{-0} \\ 5 \end{array}
 \end{array}$$

EXERCISE 6.4

(a) $92 \div 10$ $Q = \boxed{9}$ $R = \boxed{2}$

(b) $587 \div 10$ $Q = \boxed{58}$ $R = \boxed{7}$

(c) $834 \div 100$ $Q = \boxed{8}$ $R = \boxed{34}$

(d) $491 \div 100$ $Q = \boxed{4}$ $R = \boxed{91}$

(e) $1234 \div 10$ $Q = \boxed{123}$ $R = \boxed{4}$

(f) $5837 \div 100$ $Q = \boxed{58}$ $R = \boxed{37}$

(g) $6930 \div 100$ $Q = \boxed{69}$ $R = \boxed{30}$

(h) $4783 \div 10$ $Q = \boxed{478}$ $R = \boxed{3}$

(i) $7825 \div 10$ $Q = \boxed{782}$ $R = \boxed{5}$

(j) $8542 \div 100$ $Q = \boxed{85}$ $R = \boxed{42}$

EXERCISE 6.5

1.

$$\begin{array}{r} 5 \ 4 \\ 3 \overline{) 1 \ 6 \ 2} \\ \underline{-1 \ 5} \\ 1 \ 2 \\ \underline{-1 \ 2} \\ 0 \end{array}$$

2.

$$\begin{array}{r} 2 \ 6 \\ 9 \overline{) 2 \ 3 \ 4} \\ \underline{-1 \ 8} \\ 5 \ 4 \\ \underline{-5 \ 4} \\ 0 \end{array}$$

3.

$$\begin{array}{r} 3 \ 8 \\ 9 \overline{) 3 \ 4 \ 2} \\ \underline{-2 \ 7} \\ 7 \ 2 \\ \underline{-7 \ 2} \\ 0 \end{array}$$

4.

$$\begin{array}{r} 3 \ 8 \\ 4 \overline{) 1 \ 5 \ 2} \\ \underline{-1 \ 2} \\ 3 \ 2 \\ \underline{-3 \ 2} \\ 0 \end{array}$$

5.

$$\begin{array}{r} 2 \ 9 \\ 6 \overline{) 1 \ 7 \ 4} \\ \underline{-1 \ 2} \\ 5 \ 4 \\ \underline{-5 \ 4} \\ 0 \end{array}$$

6.

$$\begin{array}{r} 3 \ 6 \ 7 \\ 2 \overline{) 7 \ 3 \ 4} \\ \underline{-6} \\ 1 \ 3 \\ \underline{-1 \ 2} \\ 1 \ 4 \\ 4 \\ \underline{ 4} \\ 0 \end{array}$$

REVISION TEST PAPER - I

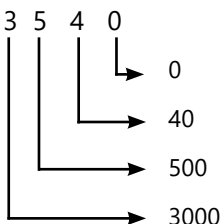
1. (a) 7220 = Seven thousand two hundred twenty

(b) 3849 = Three thousand eight hundred forty-nine.

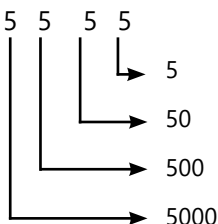
2. (a) 4270, 4269, 4268, 4267, 4266, 4265, 4264, 4263, 4262

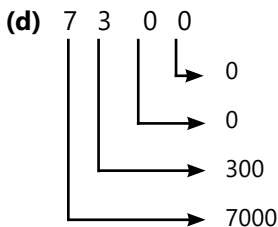
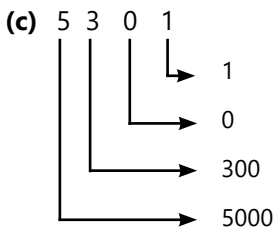
(b) 6002, 6001, 6000, 5999, 5998, 5997, 5996, 5995, 5994

3. (a)



(b)





4. (a) 4977, 7490, 4792

$4792 < 4977 < 7490$

(b) 7565, 5998, 8001

$5998 < 7565 < 8001$

5. (a) 10 more than 2185 = 2195 (b) 10 more than 6800 = 6810

(c) 100 more than 4587 = 5587 (d) 1000 more than 6449 = 7449

6. III - 3 IV - 4 VI - 6 IX - 9

XII - 12 XV - 15 VIII - 8 XIV - 14

XXII - 22 XVIII - 18 XXIV - 24 XXXIV - 34

7. 2 - II 7 - VII 9 - IX 4 - IV

13 - XIII 16 - XVI 22 - XXI 14 - XIV

19 - XIX 26 - XXVI 29 - XXIX 34 - XXXIV

38 - XXXVIII

<p>8. (a)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr><th style="padding: 0 5px;">Th</th><th style="padding: 0 5px;">H</th><th style="padding: 0 5px;">T</th><th style="padding: 0 5px;">O</th></tr> <tr><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td></td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">0</td><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">0</td></tr> <tr><td style="padding: 0 5px;">+ 1</td><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td></tr> <tr><td style="padding: 0 5px;">+ 2</td><td style="padding: 0 5px;">0</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">7</td></tr> <tr style="border-top: 1px solid black; border-bottom: 1px solid black;"><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td></tr> </table>	Th	H	T	O		1	1		2	0	5	0	+ 1	2	4	6	+ 2	0	3	7	5	3	3	3	<p>(b)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr><th style="padding: 0 5px;">Th</th><th style="padding: 0 5px;">H</th><th style="padding: 0 5px;">T</th><th style="padding: 0 5px;">O</th></tr> <tr><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td></td></tr> <tr><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">0</td><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">2</td></tr> <tr><td style="padding: 0 5px;">+ 2</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">6</td></tr> <tr><td style="padding: 0 5px;">+ 1</td><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">4</td></tr> <tr style="border-top: 1px solid black; border-bottom: 1px solid black;"><td style="padding: 0 5px;">9</td><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">2</td></tr> </table>	Th	H	T	O	1	1	1		5	0	6	2	+ 2	8	3	6	+ 1	2	3	4	9	1	3	2	<p>(c)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr><th style="padding: 0 5px;">Th</th><th style="padding: 0 5px;">H</th><th style="padding: 0 5px;">T</th><th style="padding: 0 5px;">O</th></tr> <tr><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">1</td><td></td></tr> <tr><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">4</td></tr> <tr><td style="padding: 0 5px;">+ 1</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">0</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">+ 2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">6</td></tr> <tr style="border-top: 1px solid black; border-bottom: 1px solid black;"><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">9</td></tr> </table>	Th	H	T	O	1	1	1		3	6	8	4	+ 1	8	0	9	+ 2	4	5	6	7	9	4	9
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12.(a) $7 \times 7 = 49$ (b) $5 \times 10 = 50$
(c) $9 \times 4 = 36$ (d) $6 \times 10 = 60$
(e) $8 \times 600 = 4800$ (f) $5 \times 1000 = 5000$

13. (a) <table style="margin-left: 20px;"> <tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td>□</td><td>1</td><td>□</td><td>□</td></tr> <tr><td>5</td><td>2</td><td>□</td><td>□</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td></td><td>8</td><td>4</td><td></td></tr> <tr><td></td><td>×</td><td>6</td><td>2</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td>1</td><td>6</td><td>8</td><td></td></tr> <tr><td>5</td><td>0</td><td>4</td><td>0</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td>5</td><td>2</td><td>0</td><td>8</td></tr> </table>	Th	H	T	O	□	1	□	□	5	2	□	□	<hr/>					8	4			×	6	2	<hr/>				1	6	8		5	0	4	0	<hr/>				5	2	0	8	(b) <table style="margin-left: 20px;"> <tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td>□</td><td>4</td><td>2</td><td>□</td></tr> <tr><td>3</td><td>2</td><td>□</td><td>□</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td></td><td>5</td><td>3</td><td></td></tr> <tr><td></td><td>×</td><td>7</td><td>9</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td>4</td><td>7</td><td>7</td><td></td></tr> <tr><td>3</td><td>7</td><td>1</td><td>0</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td>4</td><td>1</td><td>8</td><td>7</td></tr> </table>	Th	H	T	O	□	4	2	□	3	2	□	□	<hr/>					5	3			×	7	9	<hr/>				4	7	7		3	7	1	0	<hr/>				4	1	8	7	(c) <table style="margin-left: 20px;"> <tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td>□</td><td>3</td><td>2</td><td>□</td></tr> <tr><td>1</td><td>□</td><td>□</td><td>□</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td></td><td>3</td><td>6</td><td>4</td></tr> <tr><td></td><td>×</td><td>2</td><td>6</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td>2</td><td>1</td><td>8</td><td>4</td></tr> <tr><td>7</td><td>2</td><td>8</td><td>0</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td>9</td><td>4</td><td>6</td><td>4</td></tr> </table>	Th	H	T	O	□	3	2	□	1	□	□	□	<hr/>					3	6	4		×	2	6	<hr/>				2	1	8	4	7	2	8	0	<hr/>				9	4	6	4
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- 15.(a) $50 \div 50 = \boxed{1}$ (b) $7 \div \boxed{7} = 1$
 (c) $\boxed{0} \div 9 = 0$ (d) $7200 \div 800 = \boxed{9}$
 (e) $1200 \div 30 = \boxed{40}$ (f) $2400 \div 400 = \boxed{6}$

- 16.(a) $1234 \div 10$ Q = $\boxed{123}$ R = $\boxed{4}$
 (b) $6980 \div 100$ Q = $\boxed{69}$ R = $\boxed{30}$
 (c) $2587 \div 10$ Q = $\boxed{258}$ R = $\boxed{7}$
 (d) $5491 \div 100$ Q = $\boxed{54}$ R = $\boxed{91}$

17.

Th	H	T	O
	2		
1			
	3	7	2
	x	2	4
	1	4	8
7	4	4	0
	8	9	2
		2	8

So, cost of 24 tricycles is ₹8928.

18.

	92
4)	736
	- 72
	16
	- 16
	0

So, There are 92 students in each class.

7. LINES AND SHAPES

EXERCISE 7.1

1. Fill in the blanks :

- (a) A point has no length, breadth or thickness.
 (b) A line segment has 2 end-points.
 (c) A square has 4 line segments.
 (d) Practically we show a point by a dot.

(e) When we join many points together in one direction, we make a line-segment.

(f) A line segment is part of a line.

2. Do it yourself.

3. (a) AB, BC, CA (b) PQ, QR, RS, SP (c) JK, KL, LM, MJ

4. Fill in the blanks :

(a) We can draw a line-segment by joining two points.

(b) A triangle has 3 line segments.

(c) A plane surface extends length and breadth.

(d) A rectangle has 4 line segments.

(e) A line is made up of infinite points.

5. Find the perimeter :

(a) Square-each side 5 cm Perimeter=20 cm

(b) Rectangle-sides 6 cm, 3cm 6cm, 3cm Perimeter=18 cm

(c) Triangle-sides 6 cm, 7cm, 8cm Perimeter=21 cm

EXERCISE 7.2

Fill in the blanks :

(a) A circle has no corners and no sides.

(b) A sphere has only 1 curved face.

(c) We get 2 more corners for each fold of a corner.

(d) In a cube 3 edges meet at a vertex.

(e) Two faces meet at an edge.

(f) A cylinder has 3 faces and 2 edges but no vertex.

(g) A cube has 12 edges.

(h) A sphere has one face but no edge or vertex.

8. PATTERNS

EXERCISE 8.1

Do it yourself.

EXERCISE 8.2

Do it yourself.

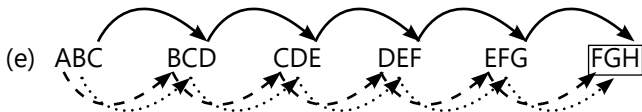
EXERCISE 8.3

1. (a) $15 \xrightarrow{+1} 16 \xrightarrow{+2} 18 \xrightarrow{+3} 21 \xrightarrow{+4} 25 \xrightarrow{+5} \boxed{30}$

(b) $25 \longrightarrow 36 \longrightarrow 49 \longrightarrow 64 \longrightarrow 81 \longrightarrow \boxed{100}$
 $(5)^2 \quad (6)^2 \quad (7)^2 \quad (8)^2 \quad (9)^2 \quad (10)^2$

(c) $120 \longrightarrow 100 \longrightarrow 80 \longrightarrow 60 \longrightarrow 40 \longrightarrow \boxed{20}$
 $(-20) \quad (-20) \quad (-20) \quad (-20) \quad (-20)$

(d) $208 \longrightarrow 216 \longrightarrow 224 \longrightarrow 232 \longrightarrow 240 \longrightarrow \boxed{248}$
 $(+8) \quad (+8) \quad (+8) \quad (+8) \quad (+8)$



2. Do it yourself.

EXERCISE 8.4

1. (a) $\boxed{1+2=3} \quad \boxed{2+3=5} \quad \boxed{3+4=7} \quad \boxed{4+5=9} \quad \boxed{5+6=11}$
 $3 \quad 5 \quad 7 \quad 9 \quad 11$

(b) $\boxed{1+2+3} \quad \boxed{2+3+4} \quad \boxed{3+4+5} \quad \boxed{4+5+6} \quad \boxed{5+6+7}$
 $6 \quad 9 \quad 12 \quad 15 \quad 18$

(c) $\boxed{1+2+3+4} \quad \boxed{2+3+4+5} \quad \boxed{3+4+5+6} \quad \boxed{4+5+6+7} \quad \boxed{5+6+7+8}$
 $10 \quad 14 \quad 18 \quad 22 \quad 26$

(d) $5 + 4$ $9 + 5$ $14 + 6$ $20 + 7$ $27 + 8$

9 14 20 27 35

2. (a) $1 + 3 = 4 (2 \times 2)$

$1 + 3 + 5 = 9 (3 \times 3)$

$1 + 3 + 5 + 7 = 16 (4 \times 4)$

$1 + 3 + 5 + 7 + 9 = 25 (5 \times 5)$

$1 + 3 + 5 + 7 + 9 + 11 = 36 (6 \times 6)$

$1 + 3 + 5 + 7 + 9 + 11 + 13 = 49 (7 \times 7)$

(b) $4 + 6 = 10 (5 \times 2)$

$4 + 6 + 8 = 18 (9 \times 2)$

$4 + 6 + 8 + 10 = 28 (14 \times 2)$

$4 + 6 + 8 + 10 + 12 = 40 (20 \times 2)$

$4 + 6 + 8 + 10 + 12 + 14 = 54 (27 \times 2)$

$4 + 6 + 8 + 10 + 12 + 14 + 16 = 70 (35 \times 2)$

3. (a) $1+2$ $3+3$ $6+4$ $10+5$ $15+ 6$

3 6 10 15 21

(b) $3 + 2$ $5 + 4$ $9 + 6$ $15 + 8$ $23 + 10$

5 9 15 23 33

(c) 1×1 2×2 3×3 4×4 5×5

1 4 9 16 25

9. FRACTIONS

EXERCISE 9.I

1. $1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}, \frac{1}{9}, \frac{1}{10}$

2. (a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{1}{6}$ (d) $\frac{1}{5}$ (e) $\frac{1}{3}$

3. Do it yourself.

4. Do it yourself.

5. (b)

6. Do it yourself.

7. $\frac{2}{5}, \frac{3}{4}, \frac{4}{6}, \frac{5}{8}, \frac{4}{9}$

8. (a) $\frac{4}{7}$ (b) $\frac{3}{5}$ (c) $\frac{5}{8}$

EXERCISE 9.2

1. (a) numerator = 2 denominator = 3

(b) denominator = 8 numerator = 5

(c) denominator = 13 numerator = 10

3. (a) $\frac{5}{6} \rightarrow \frac{5}{13} \left(\frac{3}{6}\right) \frac{2}{5} \frac{5}{9} \left(\frac{2}{6}\right) \left(\frac{1}{6}\right)$

(b) $\frac{4}{7} \rightarrow \left(\frac{6}{7}\right) \frac{2}{8} \left(\frac{4}{7}\right) \left(\frac{2}{7}\right) \frac{4}{5} \left(\frac{1}{7}\right)$

(c) $\frac{3}{8} \rightarrow \frac{3}{6} \left(\frac{2}{8}\right) \frac{3}{7} \frac{1}{5} \left(\frac{5}{8}\right) \left(\frac{7}{8}\right)$

2. (a) $\frac{4}{7}$ (b) $\frac{3}{10}$ (c) $\frac{11}{18}$

3. (a) $\frac{5}{6} \rightarrow \frac{5}{13} \frac{3}{6} \frac{2}{5} \frac{5}{9} \frac{2}{6} \frac{1}{6}$

(b) $\frac{4}{7} \rightarrow \frac{6}{7} \frac{2}{8} \frac{4}{7} \frac{2}{7} \frac{4}{5} \frac{1}{7}$

(c) $\frac{3}{8} \rightarrow \frac{3}{6} \frac{2}{8} \frac{3}{7} \frac{1}{5} \frac{5}{8} \frac{7}{8}$

EXERCISE 9.3

1. (a) $\frac{5}{6} > \frac{1}{6}$ (b) $\frac{7}{10} > \frac{3}{10}$ (c) $\frac{3}{5} < \frac{4}{5}$
 (d) $\frac{5}{7} < \frac{7}{7}$ (e) $\frac{4}{9} > \frac{2}{9}$ (f) $\frac{12}{13} > \frac{6}{13}$
 (g) $\frac{3}{8} < \frac{5}{8}$ (h) $\frac{4}{10} < \frac{7}{10}$ (i) $\frac{9}{16} > \frac{5}{16}$
2. (a) $\frac{2}{8} \frac{6}{8} \frac{7}{8} \frac{1}{8}$ $\frac{1}{8} \frac{2}{8} \frac{6}{8} \frac{7}{8}$
 (b) $\frac{8}{9} \frac{3}{9} \frac{7}{9} \frac{2}{9}$ $\frac{2}{9} \frac{3}{9} \frac{7}{9} \frac{8}{9}$
 (c) $\frac{3}{10} \frac{1}{10} \frac{9}{10} \frac{5}{10}$ $\frac{1}{10} \frac{3}{10} \frac{5}{10} \frac{9}{10}$
3. (a) $\frac{2}{7} \frac{5}{7} \frac{3}{7} \frac{6}{7}$ $\frac{6}{7} \frac{5}{7} \frac{3}{7} \frac{2}{7}$
 (b) $\frac{8}{11} \frac{4}{11} \frac{10}{11} \frac{7}{11}$ $\frac{10}{11} \frac{8}{11} \frac{7}{11} \frac{4}{11}$
 (c) $\frac{12}{15} \frac{7}{15} \frac{4}{15} \frac{9}{15}$ $\frac{12}{15} \frac{9}{15} \frac{7}{15} \frac{4}{15}$

EXERCISE 9.4

1. (a) $\frac{1}{8} > \frac{1}{9}$ (b) $\frac{3}{5} > \frac{3}{7}$ (c) $\frac{2}{9} < \frac{2}{8}$ (d) $\frac{1}{10} < \frac{1}{8}$
 (e) $\frac{4}{5} > \frac{4}{8}$ (f) $\frac{2}{7} < \frac{2}{6}$ (g) $\frac{2}{3} > \frac{2}{5}$ (h) $\frac{4}{9} < \frac{4}{7}$
 (i) $\frac{3}{7} > \frac{3}{10}$ (j) $\frac{2}{8} < \frac{2}{7}$ (k) $\frac{1}{8} > \frac{1}{9}$ (l) $\frac{5}{6} > \frac{5}{8}$
 (m) $\frac{1}{4} < \frac{1}{3}$ (n) $\frac{2}{6} < \frac{2}{3}$ (o) $\frac{1}{6} < \frac{1}{5}$ (p) $\frac{1}{5} > \frac{1}{10}$
2. (a) $\frac{1}{3} \frac{1}{2} \frac{1}{5} \frac{1}{6}$ $\frac{1}{6} \frac{1}{5} \frac{1}{3} \frac{1}{2}$
 (b) $\frac{3}{4} \frac{3}{8} \frac{3}{11} \frac{3}{10}$ $\frac{3}{11} \frac{3}{10} \frac{3}{8} \frac{3}{4}$
 (c) $\frac{4}{9} \frac{4}{11} \frac{4}{15} \frac{4}{13}$ $\frac{4}{15} \frac{4}{13} \frac{4}{11} \frac{4}{9}$

EXERCISE 9.5

1. (a) $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ (b) $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ (c) $\frac{4}{9} + \frac{2}{9} = \frac{6}{9}$
 (d) $\frac{3}{10} + \frac{2}{10} = \frac{5}{10}$ (e) $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ (f) $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$
 (g) $\frac{1}{7} + \frac{3}{7} + \frac{2}{7} = \frac{6}{7}$ (h) $\frac{5}{10} + \frac{2}{10} + \frac{1}{10} = \frac{8}{10}$ (i) $\frac{4}{9} + \frac{2}{9} + \frac{1}{9} = \frac{7}{9}$
2. (a) $\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$ (b) $\frac{5}{9} - \frac{2}{9} = \frac{3}{9}$ (c) $\frac{7}{10} - \frac{5}{10} = \frac{2}{10}$
 (d) $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$ (e) $\frac{7}{8} - \frac{5}{8} = \frac{2}{8}$ (f) $\frac{6}{7} - \frac{3}{7} = \frac{3}{7}$
3. (a) $\frac{4}{9} + \frac{3}{9} - \frac{2}{9} = \frac{5}{9}$ (b) $\frac{3}{8} + \frac{4}{8} - \frac{2}{8} = \frac{5}{8}$ (c) $\frac{7}{10} - \frac{2}{10} + \frac{3}{10} = \frac{8}{10}$

10. MONEY**EXERCISE 10.1**

1. (a) ₹1550 (b) ₹2700 (c) ₹757
 (d) ₹341 (e) ₹91
2. ₹20 + ₹5 + ₹1
 or ₹20 + ₹2 + ₹2 + ₹2
 or ₹10 + ₹10 + ₹5 + ₹1

EXERCISE 10.2

1.
$$\begin{array}{r} \boxed{1} \quad \boxed{1} \quad \boxed{1} \\ ₹ \quad 1 \quad 3 \quad 5 \\ ₹ \quad 9 \quad 8 \quad 5 \\ + ₹1 \quad 2 \quad 2 \quad 5 \\ \hline ₹2 \quad 3 \quad 4 \quad 5 \end{array}$$

2.
$$\begin{array}{r} \boxed{11} \\ ₹ \quad 15 \\ ₹ \quad 2 \quad 2 \quad 5 \\ - ₹ \quad 1 \quad 6 \quad 7 \\ \hline \quad \quad 5 \quad 8 \end{array}$$

3.
$$\begin{array}{r} \boxed{9} \\ 4 \quad \boxed{10} \quad \boxed{10} \\ ₹ \quad 5 \quad 0 \quad 0 \\ - ₹ \quad 2 \quad 3 \quad 5 \\ \hline \quad \quad 2 \quad 6 \quad 5 \end{array}$$

4.

$$\begin{array}{r}
 \square \square 1 \square \\
 \square \square \square \square \\
 \text{₹ } 43 \\
 \times 5 \\
 \hline
 \text{₹ } 215
 \end{array}$$

7.

$$\begin{array}{r}
 95 \\
 + 8 \\
 \hline
 \text{₹ } 103
 \end{array}$$

5.

$$\begin{array}{r}
 \square \square 2 \square \\
 \square \square \square \square \\
 \text{₹ } 16 \\
 \times 4 \\
 \hline
 \text{₹ } 64
 \end{array}$$

8.

$$\begin{array}{r}
 28 \\
 7 \overline{) 196} \\
 \underline{- 14} \\
 56 \\
 \underline{- 56} \\
 \times
 \end{array}$$

6.

$$\begin{array}{r}
 12 \\
 6 \overline{) 72} \\
 \underline{- 6} \\
 12 \\
 \underline{- 12} \\
 \times
 \end{array}$$

II. TIME

EXERCISE II.1

1. (a) 8 : 20 = 20 min past 8 (b) 6 : 50 = 10 min to 7
 (c) 9 : 10 = 10 min past 9 (d) 8 : 35 = 25 min to 9
 (e) 4 : 45 = 15 min to 5 (f) 9 : 30 = 30 min past 9
 (g) 10 : 40 = 20 min to 11 (h) 10 : 15 = 15 min past to 10
2. (a) 10 min past 6 (b) 20 min past 7
 (c) 15 min to 4 (d) 5 min past 11
 (e) 10 min to 60 (f) 15 min past 2
 (g) 20 min to 5 (h) 5 min to 4
 (i) 25 min to 11 (j) 25 min past 8
3. (a) quarter past 5 = 5:15 (b) half past 9 = 9 : 30
 (c) 10 min past 7 = 7:10 (d) 20 min to 4 = 3 : 40
 (e) 5 min to 6 = 5:55 (f) 25 min past 12 = 12 : 25
 (g) 25 min past 10 = 1:15 (h) 10 min to 3 = 2 : 50
 (i) 15 min past 10 = 10:15 (j) quarter to 11 = 10 : 45

EXERCISE II.2

1. (a) 8 : 15 = quarter past 8 (b) 3 : 45 = quarter to 4
(c) 12 : 15 = quarter past 12 (d) 6 : 15 = quarter past 6
(e) 11 : 45 = quarter to 12 (f) 1 : 15 = quarter past 1
(g) 9 : 15 = quarter past 9 (h) 1 : 45 = quarter to 2
(i) 5 : 45 = quarter to 6 (j) 5 : 15 = quarter past 5
(k) 10 : 15 = quarter past 10 (l) 2 : 45 = quarter to 3
(m) 7 : 45 = quarter to 8 (n) 2 : 15 = quarter past 2
(o) 9 : 45 = quarter to 10 (p) 7 : 15 = quarter past 7
(q) 12 : 45 = quarter to 1 (r) 10 : 15 = quarter past 10
(s) 4 : 45 = quarter to 5 (t) 4 : 15 = quarter past 4

EXERCISE II.3

1. (a) 4 a.m. (b) 7 p.m.
(c) 10 p.m. (d) 3 p.m.
(e) 11 a.m. (f) 5 : 35 a.m.
(g) 6 : 41 a.m. (h) 12 : 30 p.m.
2. (a) 5 a.m. and 11 a.m. = 6 hours
(b) 11 p.m. and 6 a.m. = 7 hours
(c) 10 a.m. and 6 p.m. = 8 hours
(d) 9 p.m. and 4 a.m. = 7 hours
(e) midnight and 6 a.m. = 6 hours
(f) noon and 5 p.m. = 5 hours

EXERCISE II.4

1. (a) 2 hours = 2×60 minutes = 120 minutes

- (b) 3 hours = 3×60 minutes = 180 minutes
 (c) 6 hours = 6×60 minutes = 360 minutes
 (d) 8 hours = 8×60 minutes = 480 minutes
 (e) 15 hours = 15×60 minutes = 900 minutes
2. (a) 2 day = 2×24 hours = 48 hours
 (b) 4 days = 4×24 hours = 96 hours
 (c) 5 days = 5×24 hours = 120 hours
 (d) 8 days = 8×24 hours = 192 hours
 (e) 10 days = 10×24 hours = 240 hours

3. Do it yourself.

4. (a) 26th January, 2020 = 26/01/2020
 (b) 29th February, 2020 = 29/02/2020
 (c) 5th September, 2021 = 05/09/2021
 (d) 2nd October, 2021 = 02/10/2021
 (e) 15th August, 2021 = 15/08/2021
5. (a) 15-03-2023 = 15th March, 2023
 (b) 28-02-2026 = 28th February, 2026
 (c) 26-01-2025 = 26th January, 2025
 (d) 03-12-2025 = 3rd December, 2025
 (e) 20-08-2026 = 20th August, 2026

6. Do it yourself.

7. (a) We tie our shoe laces in about 1 = Minutes
 (b) We brush our teeth in about 10 = Minutes
 (c) We sleep at night for about 8 = Hours
 (d) We eat breakfast in about 15 = Minutes
 (e) We watch a movie in about 2 = Hours

12. MEASUREMENT

EXERCISE 12.1

1. Do it yourself.
2. (a) $4\text{ m } 25\text{ cm} = 425$ (b) $3\text{ m } 5\text{ cm} = 305$
(c) $9\text{ m } 90\text{ cm} = 990$ (d) $6\text{ m } 8\text{ cm} = 608$
3. (a) $365 = 3\text{ m } 65\text{ cm}$ (b) $109 = 1\text{ m } 9\text{ cm}$
(c) $810 = 8\text{ m } 10\text{ cm}$ (d) $1205 = 12\text{ m } 5\text{ cm}$
4. (a) $5\text{ km} = 5000\text{ m}$ (b) $4\text{ km } 200\text{ m} = 4200\text{ m}$
(c) $7\text{ km } 20\text{ m} = 7020\text{ m}$ (d) $9\text{ km } 8\text{ m} = 9008\text{ m}$
5. (a) $3500\text{ m} = 3\text{ km } 500\text{ m}$ (b) $4050\text{ m} = 4\text{ km } 50\text{ m}$
(c) $5008\text{ m} = 5\text{ km } 8\text{ m}$ (d) $7000\text{ m} = 7\text{ km}$
6. Do it yourself.

EXERCISE 12.2

- (a)
$$\begin{array}{r} \text{m} \quad \text{cm} \\ 5 \quad 17 \\ + 6 \quad 89 \\ \hline 12 \quad 06 \end{array}$$
- (b)
$$\begin{array}{r} \text{m} \quad \text{cm} \\ 24 \quad 56 \\ + 35 \quad 72 \\ \hline 60 \quad 28 \end{array}$$
- (c)
$$\begin{array}{r} \text{m} \quad \text{cm} \\ 76 \quad 95 \\ + 16 \quad 48 \\ \hline 93 \quad 43 \end{array}$$
- (d)
$$\begin{array}{r} \text{m} \quad \text{cm} \\ 117 \quad 44 \\ + 237 \quad 76 \\ \hline 355 \quad 20 \end{array}$$
- (e)
$$\begin{array}{r} \text{km} \quad \text{m} \\ 4 \quad 315 \\ + 3 \quad 886 \\ \hline 8 \quad 201 \end{array}$$
- (f)
$$\begin{array}{r} \text{km} \quad \text{m} \\ 6 \quad 534 \\ + 2 \quad 866 \\ \hline 9 \quad 400 \end{array}$$
- (g)
$$\begin{array}{r} \text{km} \quad \text{m} \\ 2 \quad 635 \\ + 3 \quad 365 \\ \hline 6 \quad 000 \end{array}$$
- (h)
$$\begin{array}{r} \text{km} \quad \text{m} \\ 4 \quad 293 \\ + 4 \quad 418 \\ \hline 8 \quad 000 \end{array}$$

EXERCISE 12.3

$$\begin{array}{r} \text{(a)} \quad \text{m} \quad \text{cm} \\ 48 \quad 28 \\ -18 \quad 79 \\ \hline 29 \quad 49 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \text{m} \quad \text{cm} \\ 65 \quad 65 \\ -37 \quad 67 \\ \hline 27 \quad 98 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \text{m} \quad \text{cm} \\ 41 \quad 00 \\ -19 \quad 32 \\ \hline 21 \quad 68 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \text{km} \quad \text{m} \\ 9 \quad 234 \\ -5 \quad 567 \\ \hline 3 \quad 667 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{m} \quad \text{cm} \\ 53 \quad 37 \\ -26 \quad 88 \\ \hline 26 \quad 49 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \text{m} \quad \text{cm} \\ 78 \quad 77 \\ -29 \quad 78 \\ \hline 48 \quad 99 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \text{m} \quad \text{cm} \\ 90 \quad 32 \\ -78 \quad 84 \\ \hline 11 \quad 48 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \text{km} \quad \text{m} \\ 4 \quad 003 \\ -2 \quad 134 \\ \hline 1 \quad 869 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{m} \quad \text{cm} \\ 96 \quad 00 \\ -28 \quad 99 \\ \hline 67 \quad 1 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \text{m} \quad \text{cm} \\ 83 \quad 55 \\ -66 \quad 66 \\ \hline 16 \quad 89 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \text{km} \quad \text{m} \\ 7 \quad 666 \\ -5 \quad 787 \\ \hline 1 \quad 879 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \text{km} \quad \text{m} \\ 8 \quad 10 \\ -6 \quad 505 \\ \hline 1 \quad 505 \end{array}$$

EXERCISE 12.4

$$\begin{array}{r} \text{1.} \quad \text{m} \quad \text{cm} \\ 3 \quad 25 \\ +2 \quad 75 \\ \hline 6 \quad 00 \end{array}$$

$$\begin{array}{r} \text{4.} \quad \text{m} \quad \text{cm} \\ 6 \quad 75 \\ -5 \quad 95 \\ \hline 80 \end{array}$$

$$\begin{array}{r} \text{7.} \quad \text{km} \quad \text{m} \\ 6 \quad 575 \\ +1 \quad 450 \\ \hline 8 \quad 025 \end{array}$$

$$\begin{array}{r} \text{2.} \quad \text{m} \quad \text{cm} \\ 13 \quad 45 \\ +16 \quad 25 \\ \hline 29 \quad 70 \end{array}$$

$$\begin{array}{r} \text{5.} \quad \text{m} \quad \text{cm} \\ 5 \quad 00 \\ -2 \quad 25 \\ \hline 2 \quad 75 \end{array}$$

$$\begin{array}{r} \text{8.} \quad \text{km} \quad \text{m} \\ 4 \quad 250 \\ -2 \quad 375 \\ \hline 1 \quad 875 \end{array}$$

$$\begin{array}{r} \text{3.} \quad \text{m} \quad \text{cm} \\ 8 \quad 45 \\ +6 \quad 75 \\ \hline 15 \quad 20 \end{array}$$

$$\begin{array}{r} \text{6.} \quad \text{m} \quad \text{cm} \\ 10 \quad 55 \\ -6 \quad 75 \\ \hline 3 \quad 80 \end{array}$$

EXERCISE 12.5

$$\begin{array}{r} \text{(a)} \quad \text{m} \quad \text{cm} \\ 2 \quad 34 \\ \times \quad 4 \\ \hline 9 \quad 36 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{m} \quad \text{cm} \\ 13 \quad 25 \\ \times \quad 6 \\ \hline 79 \quad 50 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{m} \quad \text{cm} \\ 4 \quad 86 \\ \times \quad 5 \\ \hline 24 \quad 30 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \text{m} \quad \text{cm} \\ 9 \quad 75 \\ \times \quad 8 \\ \hline 78 \quad 00 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \text{m} \quad \text{cm} \\ 25 \quad 45 \\ \times \quad 3 \\ \hline 76 \quad 35 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \text{m} \quad \text{cm} \\ 23 \quad 64 \\ \times \quad 4 \\ \hline 94 \quad 56 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \text{m} \quad \text{cm} \\ 16 \quad 25 \\ \times \quad 6 \\ \hline 97 \quad 50 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \text{m} \quad \text{cm} \\ 14 \quad 35 \\ \times \quad 7 \\ \hline 100 \quad 45 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \text{km} \quad \text{m} \\ 2 \quad 345 \\ \times \quad 4 \\ \hline 9 \quad 380 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \text{km} \quad \text{m} \\ 3 \quad 756 \\ \times \quad 2 \\ \hline 7 \quad 512 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \text{km} \quad \text{m} \\ 2 \quad 545 \\ \times \quad 3 \\ \hline 7 \quad 635 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \text{km} \quad \text{m} \\ 1 \quad 158 \\ \times \quad 8 \\ \hline 9 \quad 264 \end{array}$$

EXERCISE 12.6

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 3 \overline{) 36 \quad 63} \quad 12 \text{ m} \\ \underline{-3} \\ 6 \\ \underline{-6} \\ 0 \\ 3 \overline{) 63} \quad 21 \text{ cm} \\ \underline{6} \\ 0 \quad 3 \\ \underline{-3} \\ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{km} \quad \text{m} \\ 3 \overline{) 9 \quad 375} \quad 3 \text{ km} \\ \underline{-9} \\ 0 \\ 3 \overline{) 375} \quad 125 \text{ m} \\ \underline{3} \\ 07 \\ \underline{-6} \\ 15 \\ \underline{15} \\ 0 \end{array} \end{array}$$

$$36 \text{ m } 63 \text{ cm} \div 3 = 12 \text{ m } 21 \text{ cm}$$

$$9 \text{ km} \div 375 \text{ m} = 3 \text{ km } 125 \text{ m}$$

$$\begin{array}{r}
 \text{m} \quad \text{cm} \\
 8 \overline{) 64 \quad 96} \quad (8 \text{ m} \\
 \underline{-64} \\
 0 \\
 8 \overline{) 96} \quad (12 \text{ cm} \\
 \underline{8} \\
 16 \\
 \underline{16} \\
 0
 \end{array}$$

$$64 \text{ m } 96 \text{ cm} \div 8 = 8 \text{ m } 12 \text{ cm}$$

$$\begin{array}{r}
 \text{km} \quad \text{m} \\
 7 \overline{) 56 \quad 854} \quad (8 \text{ km} \\
 \underline{-56} \\
 0 \\
 7 \overline{) 854} \quad (122 \text{ m} \\
 \underline{7} \\
 15 \\
 \underline{14} \\
 14 \\
 \underline{14} \\
 0
 \end{array}$$

$$56 \text{ km } 854 \text{ m} \div 7 = 8 \text{ km } 122 \text{ m}$$

EXERCISE 12.7

1. (a) 3 kg = 3000g (b) 5 kg = 5000g (c) 8 kg = 8000g
 (d) 2000g = 2kg (e) 9000g = 9kg (f) 4000g = 4kg
2. (a) 4 kg 375g = 4375g (b) 9 kg 90g = 9090g
 (c) 6 kg 6g = 6006g (d) 4 kg 24 g = 4024g
 (e) 1 kg 75g = 1075g (f) 5 kg 5 g = 5005g
3. (a) 2436g = 2 kg 436g (b) 5678g = 5 kg 678g
 (c) 2050g = 2 kg 50g (d) 2506g = 2 kg 506g
 (e) 4005g = 4 kg 5g (f) 8051g = 8 kg 51g

EXERCISE 12.8

$$\begin{array}{r}
 \text{(a)} \quad \text{kg} \quad \text{g} \\
 5 \quad 433 \\
 + 3 \quad 567 \\
 \hline
 9 \quad 000
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \text{kg} \quad \text{g} \\
 6 \quad 478 \\
 + 1 \quad 522 \\
 \hline
 8 \quad 000
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \text{kg} \quad \text{g} \\
 3 \quad 645 \\
 + 4 \quad 365 \\
 \hline
 8 \quad 010
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{kg} \quad \text{g} \\
 5 \quad 568 \\
 + 3 \quad 789 \\
 \hline
 9 \quad 357
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{kg} \quad \text{g} \\
 1 \quad 767 \\
 + 2 \quad 756 \\
 \hline
 4 \quad 523
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{kg} \quad \text{g} \\
 3 \quad 903 \\
 + 1 \quad 897 \\
 \hline
 5 \quad 800
 \end{array}$$

$$\begin{array}{r} \text{2. (a)} \quad \text{kg} \quad \text{g} \\ 8 \quad 368 \\ - 2 \quad 499 \\ \hline 5 \quad 869 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{kg} \quad \text{g} \\ 4 \quad 123 \\ - 1 \quad 463 \\ \hline 2 \quad 667 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{kg} \quad \text{g} \\ 9 \quad 285 \\ - 7 \quad 497 \\ \hline 1 \quad 788 \end{array}$$

$$\begin{array}{r} \text{3.} \quad \text{kg} \quad \text{g} \\ 2 \quad 275 \\ + 1 \quad 726 \\ \hline 4 \quad 001 \end{array}$$

$$\begin{array}{r} \text{4.} \quad \text{kg} \quad \text{g} \\ 6 \quad 900 \\ - 5 \quad 220 \\ \hline 1 \quad 680 \end{array}$$

EXERCISE 12.9

$$\begin{array}{r} \text{1. (a)} \quad \text{kg} \quad \text{g} \\ 2 \quad 267 \\ \times \quad 4 \\ \hline 9 \quad 068 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \text{kg} \quad \text{g} \\ 3 \quad 450 \\ \times \quad 2 \\ \hline 6 \quad 900 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \text{kg} \quad \text{g} \\ 2 \quad 127 \\ \times \quad 4 \\ \hline 8 \quad 508 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \text{kg} \quad \text{g} \\ 1 \quad 364 \\ \times \quad 7 \\ \hline 9 \quad 548 \end{array}$$

$$\begin{array}{r} \text{2. (a)} \quad \text{kg} \quad \text{g} \\ 3 \overline{) 6 \ 639} \text{ (2 kg} \\ - 6 \quad \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \overline{) 639} \text{ (213g} \\ \underline{6} \\ 03 \\ \underline{-3} \\ 09 \\ \underline{-9} \\ 0 \end{array}$$

$$6 \text{ kg } 639 \text{ g} \div 3 = 2 \text{ kg } 213 \text{ g}$$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 2 \overline{) 8 \ 468} \text{ (4 kg)} \\ \underline{- 8} \\ 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 468} \text{ (234g)} \\ \underline{2} \\ 06 \\ \underline{- 6} \\ 08 \\ \underline{- 8} \\ 0 \end{array}$$

$$\begin{aligned} 8 \text{ kg } 468 \text{ g} \div 2 \\ = 4 \text{ kg } 234 \text{ g} \end{aligned}$$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 5 \overline{) 5 \ 925} \text{ (1 kg)} \\ \underline{- 5} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \overline{) 925} \text{ (185g)} \\ \underline{5} \\ 42 \\ \underline{- 40} \\ 25 \\ \underline{- 25} \\ 0 \end{array}$$

$$\begin{aligned} 5 \text{ kg } 925 \text{ g} \div 5 \\ = 1 \text{ kg } 185 \text{ g} \end{aligned}$$

EXERCISE 12.10

$$\begin{array}{r} \text{1.} \quad \text{kg} \quad \text{g} \\ 1 \quad 750 \\ + 2 \quad 350 \\ \hline 4 \quad 100 \end{array}$$

$$\begin{array}{r} \text{2.} \quad \text{kg} \quad \text{g} \\ 4 \quad 850 \\ + 2 \quad 750 \\ \hline 7 \quad 600 \end{array}$$

$$\begin{array}{r} \text{3.} \quad \text{kg} \quad \text{g} \\ 9 \quad 425 \\ - 4 \quad 685 \\ \hline 4 \quad 740 \end{array}$$

$$\begin{array}{r} \text{4.} \quad \text{kg} \quad \text{g} \\ 4 \quad 124 \\ - 1 \quad 796 \\ \hline 2 \quad 328 \end{array}$$

$$\begin{array}{r} \text{5.} \quad \text{kg} \quad \text{g} \\ 1 \quad 250 \\ \times 7 \\ \hline 8 \quad 750 \end{array}$$

$$\begin{array}{r} \text{6.} \quad \text{kg} \quad \text{g} \\ 4 \overline{) 8 \ 220} \text{ (2 kg)} \\ \underline{- 8} \\ 0 \end{array}$$

$$\begin{array}{r} 4 \overline{) 220} \text{ (55g)} \\ \underline{2} \\ 020 \\ \underline{- 20} \\ 0 \end{array} = 2 \text{ kg } 55 \text{ g}$$

$$\begin{array}{r} \text{7.} \quad \text{kg} \quad \text{g} \\ 00 \quad 795 \\ \times 6 \\ \hline 4 \quad 770 \end{array}$$

EXERCISE 12.11

1. (a) $3\text{ l} = 3000\text{ml}$ (b) $4\text{ l} = 4000\text{ml}$ (c) $7\text{ l} = 7000\text{ml}$
 (d) $5000\text{ml} = 5\text{ l}$ (e) $9000\text{ml} = 9\text{ l}$ (f) $6000\text{ml} = 6\text{ l}$
2. (a) $3\text{ l } 375\text{ml} = 3375\text{ml}$ (b) $9\text{ l } 90\text{ml} = 9090\text{ ml}$
 (c) $6\text{ l } 6\text{ml} = 6006\text{ml}$ (d) $4\text{ l } 24\text{ml} = 4024\text{ ml}$
 (e) $1\text{ l } 75\text{ml} = 1075\text{ml}$ (f) $5\text{ l } 5\text{ ml} = 5005\text{ ml}$
3. (a) $2346\text{ml} = 2\text{ l } 346\text{ml}$ (b) $5678\text{ml} = 5\text{ l } 678\text{ml}$
 (c) $2050\text{ml} = 2\text{ l } 50\text{ ml}$ (d) $2506\text{ml} = 2\text{ l } 506\text{ ml}$
 (e) $4005\text{ml} = 4\text{ l } 5\text{ml}$ (f) $8051\text{ml} = 8\text{ l } 51\text{ml}$

EXERCISE 12.12

1. (a)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 6 \quad 322 \\ + 2 \quad 678 \\ \hline 9 \quad 000 \end{array}$$
- (b)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 5 \quad 589 \\ + 2 \quad 411 \\ \hline 8 \quad 000 \end{array}$$
- (c)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 4 \quad 756 \\ + 3 \quad 254 \\ \hline 8 \quad 010 \end{array}$$
- (d)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 4 \quad 457 \\ + 2 \quad 895 \\ \hline 7 \quad 352 \end{array}$$
- (e)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 3 \quad 656 \\ + 1 \quad 645 \\ \hline 5 \quad 301 \end{array}$$
- (f)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 1 \quad 804 \\ + 2 \quad 786 \\ \hline 4 \quad 590 \end{array}$$
2. (a)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 7 \quad 257 \\ - 3 \quad 599 \\ \hline 3 \quad 658 \end{array}$$
- (b)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 4 \quad 123 \\ - 1 \quad 456 \\ \hline 2 \quad 667 \end{array}$$
- (c)
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 8 \quad 174 \\ - 6 \quad 598 \\ \hline 1 \quad 576 \end{array}$$
3.
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 1 \quad 150 \\ + 0 \quad 950 \\ \hline 2 \quad 100 \end{array}$$
4.
$$\begin{array}{r} \text{l} \quad \text{ml} \\ 8 \quad 000 \\ - 3 \quad 500 \\ \hline 4 \quad 500 \end{array}$$

EXERCISE 12.13

1. (a) $\begin{array}{r} l \quad ml \\ 4 \quad 350 \\ \times 2 \\ \hline 8 \quad 700 \end{array}$	(b) $\begin{array}{r} l \quad ml \\ 3 \quad 250 \\ \times 3 \\ \hline 9 \quad 750 \end{array}$	(c) $\begin{array}{r} l \quad ml \\ 2 \quad 345 \\ \times 4 \\ \hline 9 \quad 380 \end{array}$
---	--	--

2. (a) $\begin{array}{r} l \quad ml \\ 2 \overline{) 6 \quad 624} \{ 3 \text{ l} \\ - 6 \quad \\ \hline 0 \\ 2 \overline{) 624} \{ 312 \text{ ml} \\ \underline{6} \\ 02 \\ \underline{-2} \\ 04 \\ \underline{-4} \\ 0 \end{array}$ <p style="text-align: center;">= 3l 312ml</p>	(b) $\begin{array}{r} l \quad ml \\ 3 \overline{) 6 \quad 396} \{ 2 \text{ l} \\ - 6 \quad \\ \hline 0 \\ 3 \overline{) 396} \{ 132 \text{ ml} \\ \underline{3} \\ 09 \\ \underline{-9} \\ 06 \\ \underline{-6} \\ 0 \end{array}$ <p style="text-align: center;">= 2l 132ml</p>
--	---

(c)

$$\begin{array}{r} l \quad ml \\ 7 \overline{) 7 \quad 448} \{ 1 \text{ l} \\ - 7 \quad \\ \hline 0 \\ 7 \overline{) 448} \{ 64 \text{ ml} \\ \underline{42} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

= 1l 64ml

3.

$$\begin{array}{r} l \quad ml \\ 00 \quad 645 \\ \times 6 \\ \hline 3 \quad 870 \end{array}$$

4.

$$\begin{array}{r} l \quad ml \\ 3 \overline{) 3 \quad 960} \{ 1 \text{ l} \\ - 3 \quad \\ \hline 0 \\ 3 \overline{) 960} \{ 320 \text{ ml} \\ \underline{9} \\ 06 \\ \underline{-6} \\ 0 \end{array}$$

= 1l 320ml

REVISION TEST PAPER II

1. Fill in the blanks

- (a) A line is made up of infinite points
- (b) When we join many points together, we make a line segment.
- (c) A cylinder has 3 faces and 2 edges but no vertex.
- (d) A sphere has 1 face but no edge or vertex.
- (e) We get 2 more corners for each folder of a corner.
- (f) A circle has no corners and no sides.
- (g) A Sphere has only 1 curved face.

2. (a) and (c).

3. (a)

$1+2$	$3+3$	$6+4$	$10+5$	$15+6$
-------	-------	-------	--------	--------

3 6 10 15 21

(b)

1×1	2×2	3×3	4×4	5×5
--------------	--------------	--------------	--------------	--------------

1 4 9 16 25

4. (a) $\frac{4}{6}$ (b) $\frac{3}{8}$ (c) $\frac{3}{4}$ (d) $\frac{4}{8}$

5. She get fraction of marks = $\frac{14}{20}$

6. (a) $\frac{12}{13} > \frac{6}{13}$ (b) $\frac{9}{16} > \frac{5}{16}$ (c) $\frac{5}{16} < \frac{6}{12}$ (d) $\frac{4}{10} > \frac{4}{11}$

7. (a) $\frac{7}{8} - \frac{5}{8} = \frac{2}{8}$ (b) $\frac{4}{9} + \frac{2}{9} + \frac{1}{9} = \frac{8}{9}$

(c) $\frac{3}{8} + \frac{4}{8} - \frac{2}{8} = \frac{5}{8}$ (d) $\frac{1}{7} + \frac{2}{7} + \frac{3}{7} = \frac{6}{7}$

(e) $\frac{4}{9} + \frac{2}{9} - \frac{5}{9} = \frac{1}{9}$ (f) $\frac{11}{15} - \frac{7}{15} + \frac{4}{15} = \frac{8}{15}$

8.

$$\begin{array}{r}
 \boxed{2} \boxed{10} \boxed{16} \\
 \text{₹ } 3 \text{ } 1 \text{ } 6 \\
 - \text{₹ } 2 \text{ } 2 \text{ } 8 \\
 \hline
 \text{₹ } \quad 8 \text{ } 8
 \end{array}$$

9.

$$\begin{array}{r}
 33 \\
 6 \overline{) 198} \\
 \underline{-18} \\
 18 \\
 \underline{18} \\
 0
 \end{array}$$

So, one bottle costs = ₹33.

10 to 16. Do it yourself.

17.

$$\begin{array}{r}
 l \quad ml \\
 0 \quad 645 \\
 \times 6 \\
 \hline
 3 \quad 870
 \end{array}$$

18.

$$\begin{array}{r}
 kg \quad g \\
 17 \quad 250 \\
 +15 \quad 280 \\
 \hline
 32 \quad 530
 \end{array}$$

19.

$$\begin{array}{r}
 m \quad cm \\
 5 \quad 00 \\
 - 2 \quad 25 \\
 \hline
 2 \quad 75
 \end{array}$$

