



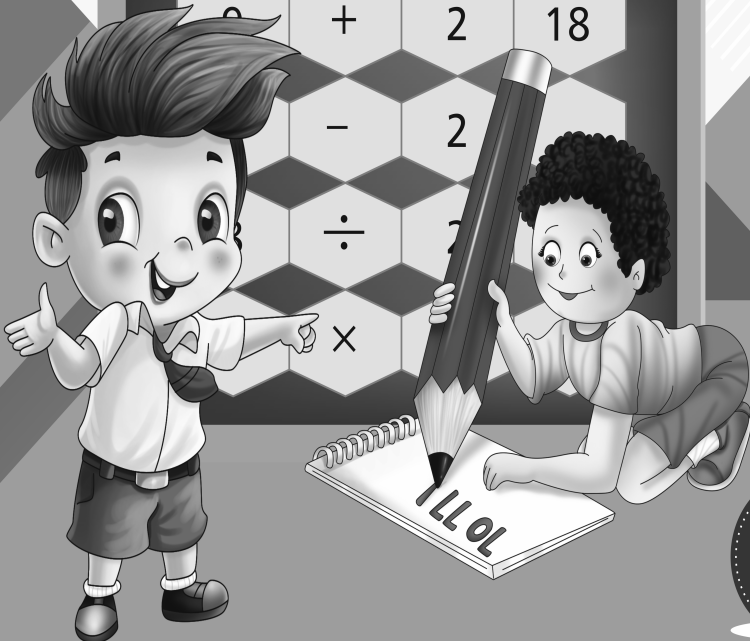
Tim@x[®]



Maths Magic

NEP 2020
ENHANCED
EDITION

Teacher Manual



4

MATHS

CLASS 4

Ex. 1.1

1. (a) Numeral : 6449

Number name : Six thousand four hundred forty nine.

(b) Numeral : 4253

Number name : Four thousand two hundred fifty three.

2.

	L	TTh	Th	H	T	O
(a)		3	5	4	1	4
(b)			7	6	8	3
(c)		1	8	7	3	2
(d)		7	5	9	2	9
(e)	3	4	0	8	8	6
(f)		5	2	6	7	8
(g)		5	0	0	0	0
(h)		9	5	2	5	0

3. (a) One lakh forty one thousand nine hundred twenty five.
 (b) Eight hundred seventy four.
 (c) Two lakh three thousand two hundred six.
 (d) Nine thousand fifty two.
 (e) Eighty one thousand five hundred sixty eight.
 (f) Two thousand one hundred seventy nine.
 (g) Forty two thousand five hundred seventy six.
 (h) Three lakh eighty thousand nine hundred one.
 (i) Three thousand four hundred seven.

4.

	TTh	Th	H	T	O
(a)	5	8	3	0	4
(b)	9	1	7	0	1
(c)		7	9	0	6
(d)	7	4	2	2	0

5. (a) 8 ones
 2 tens
 4 hundreds
 3 thousands
 6 ten thousands
- (b) 3 ones
 0 tens
 2 hundreds
 8 thousands
 9 ten thousands
- (c) 3 ones
 9 tens
 1 hundred
 2 thousands
 5 ten thousands
- (d) 6 ones
 8 tens
 7 hundreds
 4 thousands
 8 ten thousands
6. (a) 49876
 (b) 86543

Ex. 1.2

1. (a) 38,437 (b) 63,914 (c) 90,001 (d) 40275
 (e) 579623 (f) 917638

2. (a) 8 ten thousands + 7 thousands + 9 hundreds + 4 tens + 2 ones.
 (b) 7 ten thousands + 0 thousands + 4 hundreds + 9 tens + 3 ones.
 (c) 9 ten thousands + 0 thousands + 0 hundreds + 0 tens + 4 ones.
 (d) 3 ten thousands + 2 thousands + 4 hundreds + 1 tens + 6 ones.
 (e) 8 ten thousands + 7 thousands + 5 hundreds + 0 tens + 3 ones.
3. (a) 4936 (b) 92641 (c) 7356 (d) 66024
 (e) 95047 (f) 88888
4. (a) $7 \times 10000 + 9 \times 1000 + 2 \times 100 + 1 \times 10 + 4$
 (b) $8 \times 10000 + 0 \times 1000 + 5 \times 100 + 6 \times 10 + 4$
 (c) $2 \times 10000 + 3 \times 1000 + 6 \times 100 + 3 \times 10 + 4$
 (d) $8 \times 10000 + 8 \times 1000 + 8 \times 100 + 8 \times 10 + 8$
 (e) $8 \times 10000 + 5 \times 1000 + 6 \times 100 + 7 \times 10 + 2$
5. (a) $7 \times 1000 + 2 \times 100 + 1 \times 10 + 9$
 (b) $8 \times 10000 + 2 \times 1000 + 4 \times 100 + 6 \times 10 + 2$
 (c) $5 \times 10000 + 5 \times 100 + 2 \times 10 + 1$
 (d) $6 \times 10000 + 4 \times 10$
 (e) $7 \times 10000 + 4 \times 1000 + 9 \times 10 + 1$
 (f) $3 \times 10000 + 2 \times 1000 + 4 \times 100 + 1 \times 10 + 5$
 (g) $7 \times 10000 + 2 \times 1000 + 3 \times 10 + 1$
 (h) $8 \times 10000 + 9 \times 1000 + 3 \times 100 + 2 \times 10 + 5$
 (i) $9 \times 10000 + 8$
 (j) $2 \times 10000 + 8 \times 1000 + 4 \times 100 + 1 \times 10 + 5$
 (k) $8 \times 100000 + 3 \times 10000 + 6 \times 1000 + 2 \times 100 + 4 \times 10 + 0$
 (l) $9 \times 100000 + 2 \times 10000 + 6 \times 100 + 3 \times 10 + 8$
 (m) $5 \times 100000 + 4 \times 10000 + 2 \times 1000 + 8 \times 100 + 6 \times 10 + 5$
 (n) $3 \times 100000 + 6 \times 10000 + 4 \times 1000 + 2 \times 100 + 8 \times 10 + 9$
 (o) $5 \times 100000 + 4 \times 10000 + 3 \times 1000 + 2 \times 100 + 1 \times 10 + 0$

Ex. 1.3

- (a) A (b) D (c) A (d) D
- (a) 8008 (b) 1961 (c) 5872 (d) 4040
(e) 2186 (f) 347
- (a) 7212 (b) 66660 (c) 5550 (d) 4212
(e) 100050 (f) 9020
- (a) $2727 > 6767 > 7676 > 31331$
(b) $36511 > 46744 > 64110 > 86144$
(c) $2412 > 4124 > 4134 > 31437$
(d) $21206 > 42222 > 622304 > 821309$
- (a) $167404 < 96173 < 61476 < 3747$
(b) $6541 < 4561 < 1699 < 1459$
(c) $876140 < 64613 < 64100 < 41604$
(d) $716200 < 367126 < 7612 < 6172$
(e) $350056 < 85050 < 55504 < 55002$

Ex. 1.4

- (a) 12379 (b) 10357 (c) 24678 (d) 2237
- (a) 76432 (b) 97530 (c) 7310 (d) 521
- (a) 256890 (b) 103367 (c) 144467 (d) 124467
(e) 345558
- (a) 99999 (b) 87643 (c) 86543 (d) 86432
- (a) 999999 (b) 988654 (c) 989999 (d) 989999
(e) 498765

Mental Maths

- 841, 706,705, 674, 509, 242, 185, 183
- 874, 830, 818, 443, 391, 343, 239, 076

Sum up

- (a) 47296, 47306, 47316 (b) 21348, 21448, 21548
(c) 49,106, 50,106, 51,106 (d) 72,215, 82,215, 92,215
- (a) 7000 (b) 700 (c) 70000 (d) 70 (e) 7

3. 4 ones 1 ten 2 hundreds 8 thousands 7 ten thousands

4. (a) 56781 (b) 78085 (c) 25020 (d) 306590

5. (a) 10234 (b) 10000 (c) 30000 (d) 10060
(e) 24010

6. Area of Delhi = 342236 sq.km.

Expanded from = 300000 + 40000 + 2000 + 200 + 30 + 6

Standard from = 342236

Beat the Clock

(a) 4888 (b) 2241 (c) 4118 (d) 1843

(e) 358 (f) 152 (g) 781 (h) 278

(i) 2837 (j) 3221 (k) 8400 (l) 1335

(m) 2898 (n) 906 (o) 650 (p) 8700

Ex. 2.1

1. (a)

5213	7223	(b) 9836	14158
+ 2010	- 2010	+ 4322	- 4322
<u>7223</u>	<u>5213</u>	<u>14158</u>	<u>9836</u>

Estimated Answer = 7000

Estimated Answer = 14000

(c) 4321 4648

+ 327 - 327

4648 4321

Estimated Answer = 5000

2. (a) 1 3 7 6

+ 4 9 8 1

6 3 5 7

(b) 3 4 6 8 5

+ 2 8 7 2 4

4 4 8 9 3

10 8 3 0 2

(c) 4 3 2 5 4

+ 2 7 4 0 0

7 0 6 5 4

3. Pages in the dictionary = 2012

Pages added in the new version = 1003

Total Pages in the new version = 3015

The new version contains 3015 Pages.

4. Number of Old DVD = 5416

Number of New DVD = 6986

Total DVDS 12402

∴ The video library has 12,402 DVDS

5. Cost of Motor bike = ₹ 35,750

Cost of Secondhand Maruti Car = ₹ 45,895

Total cost of Bike and Car = ₹ 84645

∴ Cost of bike and Car is ₹ 81645

$$\begin{array}{r} 111 \\ 35750 \\ 45895 \\ \hline 81645 \end{array}$$

6. Number of candidates, last year = 35627

Number of more candidates this year = 12348

Total candidates appeared this year = 47975

∴ 47975 candidates appeared this year

7. Cost of colour television = ₹ 30250

More money needed to buy = ₹ 19490

Home theatre

Cost of Home theatre = ₹ 49740

∴ Cost of Home theatre is = ₹ 49,740

8. Cost of sofa set = ₹ 33,490

Cost of refrigerator = ₹ 19,640

∴ Total amount spent by Amit = 53130

∴ Amit spent = ₹ 53,130

Mental Maths

Horizontal →

Vertical ↓

1. 28375

1. 23896

4. 88542

2. 38546

5. 68651

3. 54281

Ex. 2.2

1. (a) $85 + 98 = 98 + 85$

(b) $403 + 798 = 798 + 403$

$$(c) 0 + 734 = 734$$

$$(d) 0 + 79602 = 79602$$

2. (a) $(8 + 3) + 5 = 8 + (3 + 5) = 16$

(b) $(4 + 9) + 1 = 4 + (9 + 1) = 14$

Ex. 2.3

1. (a)	$\begin{array}{r} 8945 \\ - 4372 \\ \hline 4573 \end{array}$	$\begin{array}{r} 4573 \\ + 4372 \\ \hline 8945 \end{array}$	(b)	$\begin{array}{r} 43985 \\ - 22337 \\ \hline 21648 \end{array}$	$\begin{array}{r} 21648 \\ - 22337 \\ \hline 43985 \end{array}$
--------	--	--	-----	---	---

(c)	$\begin{array}{r} 56864 \\ - 37819 \\ \hline 19045 \end{array}$	$\begin{array}{r} 19045 \\ + 37819 \\ \hline 56864 \end{array}$	(d)	$\begin{array}{r} 90080 \\ - 79919 \\ \hline 10161 \end{array}$	$\begin{array}{r} 10161 \\ + 79919 \\ \hline 90080 \end{array}$
-----	---	---	-----	---	---

Check

Check

2. (a)	$\begin{array}{r} 7637 \\ - 2837 \\ \hline 4800 \end{array}$	$\begin{array}{r} 4800 \\ + 2837 \\ \hline 7637 \end{array}$	(b)	$\begin{array}{r} 36004 \\ - 21056 \\ \hline 14948 \end{array}$	$\begin{array}{r} 14948 \\ + 21056 \\ \hline 36004 \end{array}$
--------	--	--	-----	---	---

Check

Check

(c)	$\begin{array}{r} 5869 \\ - 2341 \\ \hline 3528 \end{array}$	$\begin{array}{r} 3528 \\ + 2341 \\ \hline 5869 \end{array}$	(d)	$\begin{array}{r} 8497 \\ - 5685 \\ \hline 2812 \end{array}$	$\begin{array}{r} 2812 \\ + 5685 \\ \hline 8497 \end{array}$
-----	--	--	-----	--	--

3. Initial Amount in the account = ₹ 40890

Money withdrawn = ₹ -25380

Balance in the account = ₹ 15,510

₹ 15,510 was the balance after withdrawal

4. Apples boxes in the cold storage = 42,681

Boxes sent to fruit-sellers = - 1248

Boxes Left = 41433

∴ 41,433 boxes were left in the cold storage.

5. Toffees manufactured in a week = 43217

Toffees distributed to dealers = - 28415

$$\text{Toffees remaining} = \underline{\underline{14802}}$$

$$\therefore \text{Ans.} = 14802 \text{ toffees}$$

6. Bags of wheat in the godown = 56325

Bags issued for public distribution = 18469

$$\text{Bags left in the godown} = \underline{\underline{37856}}$$

$$\therefore 37,856 \text{ bags were left in the godown.}$$

7. People watching the match on first day = 62413

Spectators on second day = 72461

$$\therefore \text{Increase in the spectators} = 72461 - 62413$$

$$72461$$

$$- 62413$$

$$\underline{\underline{10048}}$$

$$\therefore 10048 \text{ spectators increased on the second day.}$$

8. Points required for level 2 = 20,000

Points kunal has = - 254

Points needed to reach level 2 = 19746

$$\therefore \text{Kunal needs } 19746 \text{ points to reach level 2}$$

9. (a) 6000 (b) 7004 (c) 74000 (d) 9000

$$- 4837$$

$$\underline{\underline{1163}}$$

$$- 3298$$

$$\underline{\underline{3706}}$$

$$- 43265$$

$$\underline{\underline{30735}}$$

$$- 5836$$

$$\underline{\underline{3164}}$$

Ex. 2.4

1. (a) 5473

$$- 329$$

$$\underline{\underline{5144}}$$

(b) $329 \rightarrow (329 + 1) \rightarrow 330$

$$- 159 \rightarrow (159 + 1) \rightarrow 160$$

$$\underline{\underline{170}}$$

$$\underline{\underline{170}}$$

(c) $532 \rightarrow (532 + 2) \rightarrow 530$

$$+ 208 \rightarrow (208 + 2) \rightarrow 210$$

$$\underline{\underline{740}}$$

$$\underline{\underline{740}}$$

(d) $2376 \rightarrow (2376 + 4) \rightarrow 2380$

$$- 2046 \rightarrow (2046 + 4) \rightarrow 2050$$

$$\underline{\underline{0330}}$$

$$\underline{\underline{0330}}$$

(e) 3500

- 429

3071

(f) $589 \rightarrow (589 + 1) \rightarrow 590$

+ 361 $\rightarrow (36 - 1) \rightarrow + 360$

950

950

(g) $498 \rightarrow (498 + 2) \rightarrow 500$

+ 202 $\rightarrow (202 - 2) \rightarrow + 200$

700

(h) 54

+ 32

86

2. (a) $349 + 251 = 600$

(b) $223 + 99 + 98 = 420$

(c) $3241 + 991 = 4232$

(d) $143 + 120 = 263$

(e) $130 + 1150 = 1280$

(f) $80 + 168 = 248$

Beat the Clock

Do yourself

Mental Math

Do yourself

Sum up

1. (a) (iv)

(b) (i)

(c) (iii)

(d) (iv)

2. (a) $842 \rightarrow (842 + 8) \rightarrow 850$

- 302 $\rightarrow (302 - 8) \rightarrow - 310$

540

540

(b) $828 \rightarrow (828 + 2) \rightarrow 830$

+ 202 $\rightarrow (212 - 2) \rightarrow + 210$

1040

1040

(c) 314

- 286

028

(d) $198 \rightarrow (198 + 2) \rightarrow 200$

+ 202 $\rightarrow (202 - 2) \rightarrow + 200$

400

400

3. (a) 3 2 5 4

+ 2 2 0 7

5 4 6 1

(b) 1 3 7 6

+ 4 9 8 1

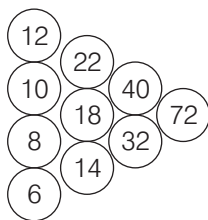
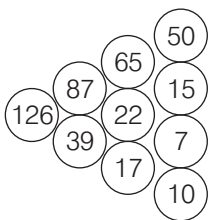
6 3 5 7

(c) 7 3 2 0

- 4 5 6 8

2 7 5 2

4.



5. Krishna bought oven for = ₹ 19234

Sneha bought oven for = ₹ 22436

Money Sneha Paid more = ₹ 22436 – 19234

₹ 22436

19234

03202

Sneha paid ₹ 3,202 more for the oven.

Mental Maths

$$\begin{array}{r} 627 \\ \times 24 \\ \hline 2508 \\ 12540 \\ \hline 15048 \end{array}$$

$$\begin{array}{r} 67 \\ \times 19 \\ \hline 603 \\ 670 \\ \hline 1273 \end{array}$$

$$\begin{array}{r} 426 \\ \times 73 \\ \hline 1278 \\ 29820 \\ \hline 31098 \end{array}$$

Ex. 3.1

1. (a) 176

$$\begin{array}{r} \times 20 \\ \hline 3520 \end{array}$$

(b) 315

$$\begin{array}{r} \times 40 \\ \hline 12600 \end{array}$$

(c) 417

$$\begin{array}{r} \times 60 \\ \hline 25020 \end{array}$$

(d) 680

$$\begin{array}{r} \times 80 \\ \hline 54400 \end{array}$$

(e) 8360

$$\begin{array}{r} \times 90 \\ \hline 752400 \end{array}$$

(f) 45268

$$\begin{array}{r} \times 20 \\ \hline 905360 \end{array}$$

$$\begin{array}{r} \text{(g) } 92803 \\ \times 10 \\ \hline \underline{928030} \end{array}$$

$$\begin{array}{r} \text{(h) } 3642 \\ \times 40 \\ \hline \underline{145680} \end{array}$$

$$\begin{array}{r} \text{(i) } 4528 \\ \times 20 \\ \hline \underline{90560} \end{array}$$

$$\begin{array}{r} \text{(j) } 3333 \\ \times 50 \\ \hline \underline{166650} \end{array}$$

$$\begin{array}{r} \text{(k) } 92620 \\ \times 80 \\ \hline \underline{7409600} \end{array}$$

$$\begin{array}{r} \text{(l) } 64320 \\ \times 90 \\ \hline \underline{5788800} \end{array}$$

2. (a) $20 \times 40 = 800$

(c) $38 \times 400 = 15200$

(e) $78 \times 200 = 15600$

(g) $540 \times 30 = 16200$

(i) $2000 \times 80 = 160000$

(k) $20 \times 80 \times 20 = 32000$

(m) $540 \times 300 = 162000$

(b) $56 \times 50 = 2800$

(d) $75 \times 200 = 15000$

(f) $15 \times 700 = 10500$

(h) $100 \times 10 = 1000$

(j) $34 \times 300 = 10200$

(l) $100 \times 10 \times 30 = 30000$

(n) $415 \times 600 = 249000$

3. (a) $12 \times 5 \times 23$

$= 60 \times 23$

$= 1380$

(c) $40 \times 62 \times 5$

$= 200 \times 62$

$= 12400$

(e) $17 \times 40 \times 4$

$= 160 \times 17$

$= 2720$

(g) $7 \times 20 \times 10$

$= 7 \times 200$

$= 1400$

(b) $91 \times 20 \times 5$

$= 91 \times 100$

$= 9100$

(d) $50 \times 51 \times 10$

$= 500 \times 51$

$= 25500$

(f) $23 \times 50 \times 8$

$= 23 \times 400$

$= 9200$

(h) $60 \times 40 \times 3$

$= 2400 \times 3$

$= 7200$

$$\begin{aligned}
 \text{(i)} \quad & 36 \times 20 \times 5 \\
 & = 36 \times 100 \\
 & = 3600
 \end{aligned}$$

Mental Maths

- (a) $5 \times 60 = 300$ min
 (b) $32 \times 60 = 1920$ min
 (c) $21 \times 60 = 1260$ min
 (d) $36 \times 60 = 2160$ min

Mental Maths

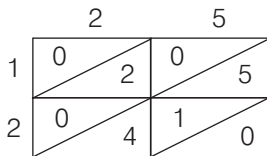
Do yourself

Ex. 3.2

1. $4567 \times 3894 = 3894 \times 4567$ 2. $2893 \times 0 = 0$
 3. $567 \times 48903 = 48903 \times 567$
 4. $7093 \times 218 \times 4159 = 218 \times 4159 \times 7093$
 5. $3941 \times 2834 \times 0 = 0$ 6. $39421 \times 1 = 39421$
 7. $4834 \times 0 = 4834 \times 0$ 8. $245 \times 3000 = 735000$
 9. $145 \times 100 = 14500$ 10. $30 \times 20 = 600$
 11. $30 \times 50 \times 20 = 30000$
 12. $25(375 \times 482) = (25 \times 375) + (25 \times 482)$

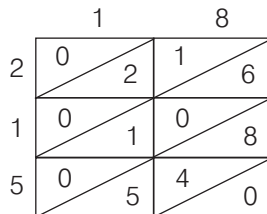
Ex. 3.3

1. (a) 25×12



Ans = 300

- (b) 18×215



Ans = 3870

(c) 23×95

	2		3	
9	1	8	2	7
5	1	0	1	5

Ans = 2185

(d) 512×25

	5		1		2	
2	1	0	0	2	0	4
5	2	5	0	5	1	0

Ans = 12800

(e) 72×36

	7		2	
3	2	0	6	
6	4	1	2	

Ans = 2592

(f) 13×29

	1		3	
2	0	2	0	6
9	0	9	2	7

Ans = 377

(g) 89×93

	8		9	
9	7	2	8	1
3	2	4	2	7

Ans = 8277

(h) 714×15

	7		1		4	
1	0	7	0	1	0	4
5	3	5	0	5	2	0

Ans = 10710

(i) 275×21

	2		7		5	
2	0	4	1	4	1	0
1	0	2	0	7	0	5

Ans = 5775

2. (a)

	2		5	
1	0	2	0	5
2	0	4	1	0

Ans = 300

(b)

	2		3	
9	1	8	2	7
5	1	0	1	5

Ans = 2185

(c)

	2	1	5
1	0	0	0
	2	1	5
8	1	0	4
	6	8	0

Ans = 3870

(d)

	5	1	2
2	1	0	0
	0	2	4
5	2	0	1
	5	5	0

Ans = 12800

Ex. 3.4

1. 490×78

$$490 \longrightarrow 500$$

$$78 \longrightarrow \times 80$$

$$\text{Estimated Product} = \underline{40000}$$

2. 648×12

$$648 \longrightarrow 650$$

$$12 \longrightarrow \times 10$$

$$\text{Estimated Product} = \underline{6500}$$

3. 578×475

$$578 \longrightarrow 580$$

$$475 \longrightarrow \times 470$$

$$\underline{272600}$$

4. 512×183

$$512 \longrightarrow 510$$

$$183 \longrightarrow \times 180$$

$$\underline{91800}$$

5. 564×17

$$564 \longrightarrow 560$$

$$17 \longrightarrow \times 20$$

$$\underline{11200}$$

6. 535×28

$$535 \longrightarrow 530$$

$$28 \longrightarrow \times 30$$

$$\underline{24900}$$

7. 192×281

$$192 \longrightarrow 190$$

$$281 \longrightarrow \times 280$$

$$\underline{53200}$$

8. 19×29

$$19 \longrightarrow 20$$

$$29 \longrightarrow \times 30$$

$$\underline{600}$$

9. 432×108

$$\begin{array}{r} 432 \longrightarrow 430 \\ 108 \longrightarrow \times 100 \\ \hline 43000 \end{array}$$

Mental Maths

$$\begin{array}{r} 43 \\ \times 76 \\ \hline 258 \\ 3010 \\ \hline 3268 \end{array}$$

Ex. 3.5

1. (a) $\begin{array}{r} 96 \\ \times 83 \\ \hline 288 \\ 7680 \\ \hline 7968 \end{array}$

(b) $\begin{array}{r} 46 \\ \times 45 \\ \hline 230 \\ 1840 \\ \hline 2070 \end{array}$

(c) $\begin{array}{r} 87 \\ \times 72 \\ \hline 174 \\ 6090 \\ \hline 6264 \end{array}$

(d) $\begin{array}{r} 94 \\ \times 83 \\ \hline 282 \\ 7520 \\ \hline 7802 \end{array}$

(e) $\begin{array}{r} 85 \\ \times 23 \\ \hline 255 \\ 1700 \\ \hline 1955 \end{array}$

(f) $\begin{array}{r} 94 \\ \times 27 \\ \hline 658 \\ 1880 \\ \hline 2538 \end{array}$

(g) $\begin{array}{r} 47 \\ \times 83 \\ \hline 141 \\ 3760 \\ \hline 3901 \end{array}$

(h) $\begin{array}{r} 79 \\ \times 57 \\ \hline 553 \\ 3950 \\ \hline 4503 \end{array}$

2. (a) $\begin{array}{r} 85 \\ \times 29 \\ \hline 765 \\ 1700 \\ \hline 2465 \end{array}$

(b) $\begin{array}{r} 69 \\ \times 72 \\ \hline 138 \\ 4830 \\ \hline 4968 \end{array}$

(c) $\begin{array}{r} 87 \\ \times 56 \\ \hline 522 \\ 4350 \\ \hline 4872 \end{array}$

(d) $\begin{array}{r} 79 \\ \times 63 \\ \hline 237 \\ 4740 \\ \hline 4977 \end{array}$

(e) $\begin{array}{r} 83 \\ \times 64 \\ \hline 332 \\ 4980 \\ \hline 5312 \end{array}$

(f) $\begin{array}{r} 97 \\ \times 54 \\ \hline 388 \\ 4850 \\ \hline 5238 \end{array}$

(g) $\begin{array}{r} 76 \\ \times 47 \\ \hline 532 \\ 3040 \\ \hline 3572 \end{array}$

(h) $\begin{array}{r} 47 \\ \times 94 \\ \hline 188 \\ 4230 \\ \hline 4418 \end{array}$

(i) 29

$\times 92$

58

2610

2668

(j) 45

$\times 55$

225

2250

2475

(k) 66

$\times 28$

528

1320

1848

(l) 39

$\times 47$

273

1560

1833

Ex. 3.6

1. 425

$\times 425$

2125

8500

170000

180625

Yes the multiplication is correct.

2. Money saved in one month = ₹ 365

Money saved in a year = ₹ 365×12

365

$\times 12$

730

3650

4380

₹ 4380 is saved in one year.

3. Bulbs produced daily = 325×6

= 1950 bulbs

Bulbs produced in 27 days = 1950×27

1950

$\times 27$

13650

39000

52650

\therefore 52650 Bulbs are produced in 27 days.

4. Pages read in one hour = 35

∴ Pages read in 7 hours = $35 \times 7 = 245$

∴ Pages read in one day = 245

∴ Pages read in 25 days = 245×25

$$\begin{array}{r} 245 \\ \times 25 \\ \hline 1225 \\ 4900 \\ \hline 6125 \end{array}$$

∴ the book has 6125 Pages

5. Mangoes in one basket = 378

∴ Number of Mangoes in 406 baskets = 378×406

$$\begin{array}{r} 378 \\ \times 406 \\ \hline 2268 \\ 0000 \\ 151200 \\ \hline 153468 \end{array}$$

∴ There are 153468 mangoes in 406 baskets

6. Scooter produced in 1 month = 57

∴ Scooters produced in 1 year = 57×12

$$\begin{array}{r} 57 \\ \times 12 \\ \hline 114 \\ 570 \\ \hline 684 \end{array}$$

∴ Scooters produced in 9 years = 684×9

$$\begin{array}{r} 684 \\ \times 9 \\ \hline 6156 \end{array}$$

∴ 6156 Scooters are produced in 1 year

7. Passengers a bus can carry = 98

∴ Passengers in 346 buses = 346×98

$$\begin{array}{r} 346 \\ \times 98 \\ \hline 2768 \\ 31140 \\ \hline 33908 \end{array}$$

∴ 33908 passengers can travel in 346 buses.

Sum up

1. (a) (ii) (b) (i) (c) (iii)

2. (a)	345	(b) 361	(c) 420	(d) 243
	$\times 12$	$\times 15$	$\times 16$	$\times 17$
	<u>4140</u>	<u>5415</u>	<u>6720</u>	<u>4131</u>

3. (a) 40, 50, 60, 70 (b) 400, 500, 600, 700
(c) 7000, 9000, 11000, 13000 (d) 6000, 60000, 600000, 6000000

4. (a)	$21 \times 81 \times 15$	(b)	$32 \times 96 \times 45$	
	21	1701	32	3072
	$\times 81$	$\times 15$	$\times 96$	$\times 45$
	21	8505	192	15360
	1680	17010	2880	122880
	<u>1701</u>	<u>25515</u>	<u>3072</u>	<u>138240</u>

Ans = 25515

Ans = 138240

(c) $66 \times 33 \times 77$ (d) $101 \times 22 \times 54$

	66	2178	101	2222
	$\times 33$	$\times 77$	$\times 22$	$\times 54$
	198	15246	202	8888
	1980	152460	2020	8888
	<u>2178</u>	<u>167706</u>	2020	111100

Ans = 167706

2222 119988

Ans 119988

$(e) 205 \times 15 \times 195$

$$\begin{array}{r} 205 \\ \times 15 \\ \hline 1025 \\ 2050 \\ \hline 3075 \\ \times 195 \\ \hline 15375 \\ 276750 \\ \hline 307500 \\ \hline \underline{599625} \end{array}$$

$\text{Ans} = 599625$

$(f) 32 \times 49 \times 565$

$$\begin{array}{r} 32 \\ \times 49 \\ \hline 288 \\ 1280 \\ \hline \underline{1568} \\ \times 565 \\ \hline 7840 \\ 94080 \\ \hline 784000 \\ \hline \underline{885920} \end{array}$$

$\text{Ans} = 885920$

$5. (a) 163 \times 54$

$$\begin{array}{r} 652 \\ 8150 \\ \hline \underline{8802} \end{array}$$

$(c) 163 \times 504$

$$\begin{array}{r} 652 \\ 0000 \\ 81500 \\ \hline \underline{82152} \end{array}$$

$(b) 163 \times 45$

$$\begin{array}{r} 815 \\ 6520 \\ \hline \underline{7335} \end{array}$$

$(d) 163 \times 405$

$$\begin{array}{r} 815 \\ 0000 \\ 65200 \\ \hline \underline{66015} \end{array}$$

CHAPTER 04

Ex. 4.1

Multiplication facts	Corresponding	Division facts
$2 \times 9 = 18$	$18 \div 2 = 9$	$18 \div 9 = 2$
$8 \times 6 = 48$	$48 \div 6 = 8$	$48 \div 8 = 6$
$8 \times 9 = 72$	$72 \div 8 = 9$	$72 \div 9 = 8$
$10 \times 3 = 30$	$30 \div 10 = 3$	$30 \div 3 = 10$
$3 \times 4 = 12$	$12 \div 3 = 4$	$12 \div 4 = 3$
$6 \times 5 = 30$	$30 \div 6 = 5$	$30 \div 5 = 6$

Ex. 4.2

1. $84 \div 127$

$$\begin{array}{r} 7 \\ 12 \overline{)84} \\ \underline{84} \\ \underline{60} \end{array}$$

Quotient = 07

Remainder = 0

2. $97 \div 1$

$$\begin{array}{r} 97 \\ 1 \overline{)97} \\ \underline{97} \\ \underline{0} \end{array}$$

Quotient = 7

Remainder = 0

3. $82 \div 14$

$$\begin{array}{r} 5 \\ 14 \overline{)82} \\ \underline{70} \\ \underline{12} \end{array}$$

Quotient = 5

Remainder = 12

4. $76 \div 16$

$$\begin{array}{r} 4 \\ 16 \overline{)76} \\ \underline{64} \\ \underline{12} \end{array}$$

Quotient = 4

Remainder = 12

5. $98 \div 27$

$$\begin{array}{r} 3 \\ 27 \overline{)98} \\ \underline{81} \\ \underline{17} \end{array}$$

Quotient = 3

Remainder = 17

6. $89 \div 24$

$$\begin{array}{r} 3 \\ 24 \overline{)89} \\ \underline{72} \\ \underline{17} \end{array}$$

Quotient = 3

Remainder = 17

7. $826 \div 34$

$$\begin{array}{r} 24 \\ 34 \overline{)826} \\ \underline{68} \\ 146 \\ \underline{136} \\ \underline{010} \end{array}$$

8. $768 \div 45$

$$\begin{array}{r} 17 \\ 45 \overline{)768} \\ \underline{45} \\ 318 \\ \underline{315} \\ \underline{3} \end{array}$$

Quotient = 24
Remainder = 10

9. $960 \div 51$

$$\begin{array}{r} 18 \\ 51 \overline{)960} \\ \underline{51} \\ 450 \\ \underline{408} \\ \underline{042} \end{array}$$

Quotient = 18
Remainder = 42

11. $426 \div 57$

$$\begin{array}{r} 7 \\ 57 \overline{)426} \\ \underline{399} \\ \underline{027} \end{array}$$

Quotient = 7
Remainder = 27

Quotient = 17
Remainder = 3

10. $550 \div 13$

$$\begin{array}{r} 42 \\ 13 \overline{)550} \\ \underline{52} \\ 30 \\ \underline{26} \\ \underline{04} \end{array}$$

Quotient = 42
Remainder = 4

12. $897 \div 63$

$$\begin{array}{r} 14 \\ 63 \overline{)897} \\ \underline{63} \\ 267 \\ \underline{252} \\ \underline{015} \end{array}$$

Quotient = 14
Remainder = 15

Ex. 4.3

		Quotient	Remainder
(a)	$156 \div 100$	1	56
(b)	$356 \div 10$	35	6
(c)	$845 \div 100$	8	45
(d)	$187 \div 100$	1	87
(e)	$3874 \div 100$	38	74
(f)	$9563 \div 100$	95	63
(g)	$4261 \div 10$	426	1
(h)	$7297 \div 1000$	7	297

		Quotient	Remainder
(i)	$3895 \div 1000$	3	895
(j)	$4856 \div 10$	48	56
(k)	$9563 \div 100$	95	63

2. Dividend = Divisor \times Quotient + Remainder

$$= 74 \times 32 + 53$$

$$= 2368 + 53$$

$$\text{Dividend} = 2421$$

3. (a) Dividend = Divisor \times Quotient + Remainder

$$= 35 \times 42$$

$$= 1470$$

(b) Dividend = Divisor \times Quotient + Remainder

$$= 96 \times 401 + 0$$

$$= 38496$$

(c) Dividend = Divisor \times Quotient + Remainder

$$= 125 \times 48 + 0$$

$$= 6000$$

(d) Dividend = Divisor \times Quotient + Remainder

$$= 74 \times 32 + 9$$

$$= 2368 + 9$$

$$= 2377$$

(e) Dividend = Divisor \times Quotient + Remainder

$$= 396 \times 52 + 205$$

$$= 20797$$

Mental Maths

(a)

$$\begin{array}{r} 4 \\ 1000 \overline{)4300} \\ \underline{-4000} \\ 300 \end{array}$$

(b)

$$\begin{array}{r} 31 \\ 1000 \overline{)310400} \\ \underline{-3000} \\ 1040 \\ \underline{1000} \\ 400 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \frac{11}{1000 \overline{)111100}} \\
 \underline{-1000} \\
 1100 \\
 \underline{1000} \\
 100
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \frac{896}{1000 \overline{)896000}} \\
 \underline{-8000} \\
 9600 \\
 \underline{9000} \\
 6000 \\
 \underline{6000} \\
 \times
 \end{array}$$

Ex. 4.4

1. (a) $879 \div 39$

$$\begin{array}{r}
 22 \\
 39 \overline{)879} \\
 \underline{78} \\
 099 \\
 \underline{78} \\
 21
 \end{array}$$

Quotient = 22

Remainder = 21

(c) $9215 \div 12$

$$\begin{array}{r}
 767 \\
 12 \overline{)9215} \\
 \underline{84} \\
 081 \\
 \underline{72} \\
 095 \\
 \underline{84} \\
 11
 \end{array}$$

Quotient = 767

Remainder = 11

2. (a) $567 \div 1 = 567$

(c) $0 \div 7956 = 0$

(b) $9387 \div 75$

$$\begin{array}{r}
 125 \\
 75 \overline{)9387} \\
 \underline{75} \\
 188 \\
 \underline{150} \\
 0387 \\
 \underline{375} \\
 012
 \end{array}$$

Quotient = 125

Remainder = 12

(d) $946 \div 35$

$$\begin{array}{r}
 27 \\
 35 \overline{)946} \\
 \underline{70} \\
 246 \\
 \underline{245} \\
 1
 \end{array}$$

Quotient = 27

Remainder = 1

(b) $2956 \div 2951 = 1$

(d) $7576 \div 1 = 7576$

$$(e) 867 \div 867 = 1$$

$$(f) 2847 \div 1 = 2847$$

$$(g) 3051 \div 1 = 3051$$

$$(h) 395 \div 1 = 395$$

$$(i) 0 \div 7043 = 0$$

$$(j) 4017 \div 4017 = 1$$

3. (a) $456 \div 32$

$$\begin{array}{r} 14 \\ 32 \overline{)456} \\ \underline{32} \\ 136 \\ \underline{128} \\ 008 \\ \underline{008} \end{array}$$

$$\text{Quotient} = 14$$

$$\text{Remainder} = 8$$

Verification

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= 32 \times 14 + 8 = 448 + 8 = 456 \text{ (Dividend)}$$

(b) $973 \div 48$

$$\begin{array}{r} 20 \\ 48 \overline{)973} \\ \underline{96} \\ 13 \\ \underline{0} \\ 13 \end{array}$$

$$\text{Quotient} = 20$$

$$\text{Remainder} = 13$$

Verification

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= 48 \times 20 + 13 = 960 + 13 = 973 \text{ (Dividend)}$$

(c) $7563 \div 64$

$$\begin{array}{r} 118 \\ 64 \overline{)7563} \\ \underline{64} \\ 116 \\ \underline{64} \end{array}$$

$$\begin{array}{r} 523 \\ 512 \\ \hline 011 \end{array}$$

Verification

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 118 \times 64 + 11 = 7552 + 11 \\ &= 7563 \text{ (Dividend)} \end{aligned}$$

(d) $8950 \div 20$

$$\begin{array}{r} 44 \\ 20 \overline{)8950} \\ \underline{80} \\ 095 \\ \underline{80} \\ 150 \\ \underline{140} \\ 10 \end{array}$$

Verification

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 447 \times 20 + 10 = 8940 + 10 \\ &= 8950 \text{ (Dividend)} \end{aligned}$$

(e) $9327 \div 34$

$$\begin{array}{r} 274 \\ 34 \overline{)9327} \\ \underline{68} \\ 352 \\ \underline{238} \\ 0147 \\ \underline{136} \\ 011 \end{array}$$

(i) $720 \div 45$

$$\begin{array}{r} 16 \\ 45 \overline{)720} \\ \underline{45} \\ 270 \\ \underline{270} \\ 0 \end{array}$$

Quotient = 16

Remainder = 0

Verification

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 45 \times 16 + 0 = 720 \end{aligned}$$

Beat the Clock

(a) $135 \div \underline{15} = 9$

(b) $112 \div \underline{7} = 16$

(c) $54 \div \underline{3+6} = 16$

(d) $153 \div \underline{9} = 17$

(e) $117 \div \underline{9} = 13$

(f) $152 \div \underline{8} = 19$

Mental Maths

1. Do yourself

2. (a) Yes

(b) Yes

(c) No

(d) No

(e) Yes

Ex. 4.5

1. Students in 23 rows = 2346

Students in each row = $234 \div 23$

$$\begin{array}{r} 102 \\ 23 \overline{)2346} \\ \underline{23} \\ 0046 \\ \underline{46} \\ 00 \end{array}$$

\therefore There are 102 Students in each row.

2. Larger 4 digit number = 9999

Largest 3 digit number = 999

$$\begin{array}{r}
 10 \\
 999 \overline{)9999} \\
 \underline{999} \\
 0009 \\
 \underline{0} \\
 9
 \end{array}$$

Quotient = 10 Remainder = 9

Verification

$$\begin{aligned}
 \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\
 &= 999 \times 10 + 9 \\
 &= 9990 + 9 = 9999
 \end{aligned}$$

3. Dividend = Divisor \times Quotient + Remainder

$$\begin{aligned}
 &= 68 \times 75 + 39 = 5100 + 39 \\
 &= 5139 \text{ (Dividend)}
 \end{aligned}$$

\therefore The number is 5139

4. Cartons of apples in a trucks = 15675

\therefore Cartons in 1 truck = $15675 \div 19$

$$\begin{array}{r}
 825 \\
 19 \overline{)15675} \\
 \underline{152} \\
 0047 \\
 \underline{38} \\
 95 \\
 \underline{95} \\
 00
 \end{array}$$

\therefore 825 cartoons are there in each truck.

5. Total sentences = 14118

Number of sentences in each page = 39

\therefore Number of pages in the book = $14118 \div 39$

$$\begin{array}{r}
 362 \\
 39 \overline{)14118} \\
 \underline{117} \\
 241 \\
 \underline{234} \\
 78 \\
 78 \\
 \underline{00}
 \end{array}$$

∴ The book has 362 pages

6. Product of 2 numbers = 35640

One numbers = 216

$$\begin{array}{r}
 165 \\
 216 \overline{)35640} \\
 \underline{216} \\
 1404 \\
 \underline{1296} \\
 01080 \\
 1080 \\
 \underline{000}
 \end{array}$$

∴ The other number = 165

7. Greatest number of 6 digits = 999999

Largest number of 2 digits = 99

$$\begin{array}{r}
 1010 \\
 99 \overline{)999999} \\
 99 \\
 0099 \\
 99 \\
 0099 \\
 99 \\
 00
 \end{array}$$

Quotient = 10101

Remainder = 0

8.

$$\begin{array}{r} 213 \\ 84 \overline{)17915} \\ \underline{168} \\ 0111 \\ \underline{84} \\ 275 \\ \underline{252} \\ 23 \end{array}$$

23 Should be subtracted from 17915

So that the remaining number is exactly divisible by 84

9.

$$\begin{array}{r} 226 \\ 214 \overline{)48539} \\ \underline{428} \\ 0573 \\ \underline{428} \\ 1459 \\ \underline{1284} \\ 175 \\ \underline{214} \\ -175 \\ \underline{039} \end{array}$$

39 should be added to 48539 to make it exactly divisible by 214.

10. 10000

Sum up

1. (a) (iii) (b) (iv)

(c) (iii) (d) (ii)

2. (a) $2760 \div 20 = 138$

(b) $1591 \div 37 = 43$

(c) $2640 \div 24 = 110$

(d) $3842 \div 34 = 113$

(e) $8400 \div 40 = 210$

(f) $1602 \div 18 = 89$

3. (a) 324×20

(b) 324×22

$324 \times 20 = 6480$

648

6480

7128

$$(c) 324 \times 30$$

$$\begin{array}{r} 000 \\ 9720 \\ \hline 9720 \end{array}$$

$$(e) 324 \times 33$$

$$\begin{array}{r} 324 \\ \times 33 \\ \hline 1972 \\ 9720 \\ \hline 10692 \end{array}$$

$$(d) 324 \times 203$$

$$\begin{array}{r} 648 \\ 0000 \\ \hline 64800 \\ \hline 65772 \end{array}$$

$$(f) 324 \times 302$$

$$\begin{array}{r} 324 \\ \times 302 \\ \hline 648 \\ 0000 \\ 97200 \\ \hline 97848 \end{array}$$

4. (a) 734210 by 39

$$\begin{array}{r} 18825 \\ 39 \overline{)734210} \\ \underline{39} \\ 344 \\ \underline{312} \\ 0322 \\ \underline{312} \\ 0101 \\ \underline{78} \\ 23 \\ \underline{195} \\ 35 \end{array}$$

Verification

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$\begin{aligned} &= 39 \times 18825 + 35 \\ &= 734175 + 35 \\ &= 734210 \end{aligned}$$

$$\text{Quotient} = 18825$$

$$\text{Remainder} = 35$$

(b) 575651 by 22

$$\begin{array}{r} 26165 \\ 22 \overline{)575651} \\ \underline{44} \\ 135 \\ \underline{132} \\ 36 \\ \underline{22} \end{array}$$

$$\begin{array}{r}
 145 \\
 \underline{132} \\
 0131 \\
 \underline{110} \\
 \underline{021}
 \end{array}$$

$$\text{Quotient} = 26165$$

$$\text{Remainder} = 21$$

Verification

$$\begin{aligned}
 \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\
 &= 22 \times 26165 + 21 = 575630 + 21 \\
 &= 575651 \text{ (Dividend)}
 \end{aligned}$$

(c) 309425 by 64

$ \begin{array}{r} 4834 \\ 64 \overline{)309425} \\ \underline{256} \\ 0534 \\ \underline{512} \\ 0222 \\ \underline{192} \\ 305 \\ \underline{256} \\ \underline{049} \end{array} $	<p>Verification</p> $ \begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 64 \times 4834 + 49 \\ &= 309376 \\ &= 309425 \text{ (Dividend)} \end{aligned} $
---	---

(d) 317854 by 78

$ \begin{array}{r} 4075 \\ 78 \overline{)317854} \\ \underline{312} \\ 00585 \\ \underline{546} \\ 0394 \\ \underline{390} \\ \underline{004} \end{array} $	<p>Verification</p> $ \begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 78 \times 4075 + 4 \\ &= 317850 + 4 \\ &= 317854 \end{aligned} $
--	---

(e) 540692 by 82

$$\begin{array}{r} 6593 \\ 82 \overline{)540692} \\ \underline{492} \\ 0486 \\ \underline{410} \\ 0769 \\ \underline{738} \\ 0312 \\ \underline{246} \\ 66 \end{array}$$

Verification

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 6593 \times 82 + 66 \\ &= 540626 + 66 \\ &= 540692 \text{ (Dividend)} \end{aligned}$$

(f) 626752 by 11

$$\begin{array}{r} 56977 \\ 11 \overline{)626752} \\ \underline{55} \\ 076 \\ \underline{66} \\ 107 \\ \underline{99} \\ 85 \\ \underline{77} \\ 82 \\ \underline{77} \\ 5 \end{array}$$

Verification

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 11 \times 56977 + 5 \\ &= 626747 + 5 \\ &= 626752 \text{ (Dividend)} \end{aligned}$$

(g) 318431 by 27

$$\begin{array}{r} 11793 \\ 27 \overline{)318431} \\ \underline{27} \\ 48 \\ \underline{27} \end{array}$$

<u>214</u>	Verification
189	Dividend = Divisor \times Quotient + Remainder
0253	= $27 \times 11793 + 20$
<u>243</u>	= $318411 + 20$
0101	= 318431 (Dividend)
81	
<u>20</u>	

(h) 997654 by 87

$$\begin{array}{r} 11467 \\ 87 \overline{)997654} \end{array}$$

<u>87</u>	Verification
127	Dividend = Divisor \times Quotient + Remainder
<u>87</u>	= $11467 \times 87 + 25$
406	= $997629 + 25$
<u>348</u>	= 997654 (Dividend)
585	
<u>522</u>	
0634	
609	
<u>25</u>	

(i) 856000 by 22

$$\begin{array}{r} 38909 \\ 22 \overline{)856000} \end{array}$$

<u>66</u>	Verification
196	Dividend = Divisor \times Quotient + Remainder
<u>176</u>	= $38909 \times 22 + 2$
0200	= $855998 + 2$
<u>198</u>	= 856000 (Dividend)
200	
<u>198</u>	
<u>2</u>	

(j) Bolts in one packet = 68

Total bolts = 349384

∴ Number of packets = $349384 \div 68$

$$\begin{array}{r} 5138 \\ 68 \overline{)349384} \\ \underline{340} \\ 0093 \\ \underline{68} \\ 258 \\ \underline{204} \\ 0544 \\ \underline{544} \\ \underline{000} \end{array}$$

∴ 5138 packets are required.

CHAPTER 05

Ex. 5.1

1. (a) 2, 3, 17, 19, 23

(b) 29, 41, 37, 53, 43

(c) 97, 101, 13, 7

2. (a) 40

$$1 \times 40 = 40$$

$$2 \times 20 = 40$$

$$4 \times 10 = 40$$

$$5 \times 8 = 40$$

Factors of 40 = 1, 2, 4, 5, 8, 10, 20, 40

(b) 77

$$1 \times 77 = 77$$

$$7 \times 11 = 77$$

Factors of 77 = 1, 7, 11, 77

(c) 80

$$1 \times 80 = 80$$

$$2 \times 40 = 80$$

$$4 \times 20 = 80$$

$$5 \times 16 = 80$$

$$8 \times 10 = 80$$

Factors of 80 = 1, 2, 4, 5, 8, 10, 16, 20, 40, 80

(d) 100

$$1 \times 100 = 100 \qquad 2 \times 50 = 100$$

$$4 \times 25 = 100 \qquad 5 \times 20 = 100$$

$$10 \times 10 = 100$$

Factors of 100 = 1, 2, 4, 5, 10, 20, 25, 50, 100

(e) 61

$$1 \times 61 = 61$$

Factors of 61 = 1, 61

3. (a) 50

$$50 \div 1 = 50 \qquad 50 \div 2 = 25$$

$$50 \div 5 = 10$$

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

(b) 56

$$56 \div 1 = 56 \qquad 56 \div 2 = 28$$

$$56 \div 4 = 14 \qquad 56 \div 7 = 8$$

Factors of 56 = 1, 2, 4, 7, 8, 14, 28, 56

(c) 144

$$144 \div 1 = 144 \qquad 144 \div 2 = 72$$

$$144 \div 3 = 48 \qquad 144 \div 4 = 36$$

$$144 \div 6 = 24 \qquad 144 \div 8 = 18$$

$$144 \div 9 = 16 \qquad 144 \div 12 = 12$$

Factors of 108 = 1, 2, 3, 4, 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, 144

(d) 89

$$89 \div 1 = 89$$

Factors of 89 = 1, 89

(e) 108

$$108 \div 1 = 108 \qquad 108 \div 2 = 54$$

$$108 \div 3 = 36 \qquad 108 \div 4 = 27$$

$$108 \div 9 = 12$$

Factors of 108 = 1, 2, 3, 4, 9, 12, 27, 36, 54, 108

4. (a) 11, 5

$$\text{Product} = 11 \times 5 = 55$$

Factors of 55 = 1, 5, 11

(b) 12×15

$$\text{Product} = 12 \times 15 = 180$$

Factors of 180 = 1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 30, 36, 45, 60, 90, 180

(c) 14, 12

$$\text{Product} = 12 \times 14 = 168$$

Factors of 168 = 1, 2, 3, 4, 6, 7, 8, 12, 14, 21, 24, 28, 42, 56, 84, 168

(d) 8, 12

$$\text{Product} = 8 \times 12 = 96$$

Factors of 96 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96

5. (a)

$$\begin{array}{r} 15 \\ 3 \overline{)45} \\ \underline{3} \\ 15 \\ \underline{15} \\ 00 \end{array}$$

Yes 3 is a factor of 45

(b)

$$\begin{array}{r} 9 \\ 9 \overline{)85} \\ \underline{81} \\ 4 \end{array}$$

No, 9 is not a factor of 85

(c)

$$\begin{array}{r} 5 \\ 23 \overline{)115} \\ \underline{115} \\ 000 \end{array}$$

Yes 23 is a factor of 115

6. (a) True

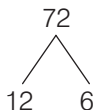
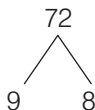
(b) False

(c) True (d) False

(e) False

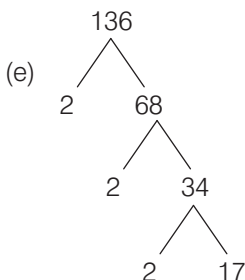
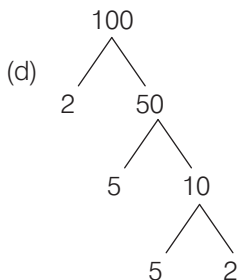
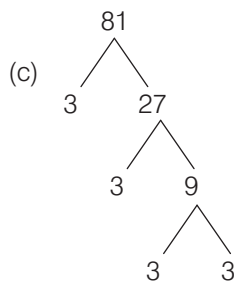
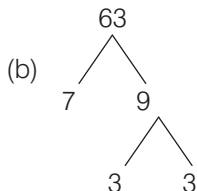
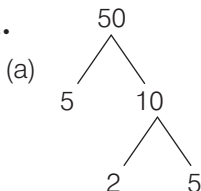
(f) True

(g) True



Ex. 5.2

1.



2. (a) 7, 14

$7 \rightarrow 1, 7$; $14 \rightarrow 1, 2, 7, 14$

Common factor 1, 7

(b) 30, 36

$30 \rightarrow 1, 2, 3, 5, 6, 10, 15, 30$; $36 \rightarrow 1, 2, 3, 4, 6, 9, 12, 18, 36$

Common factor $\rightarrow 1, 2, 3, 6$

(c) 21, 15

$21 \rightarrow 1, 3, 7, 21$

$15 \rightarrow 1, 3, 5, 15$

Common factor $\rightarrow 1, 3$

(d) 12, 20

$12 \rightarrow 1, 2, 3, 4, 6, 12$;

$20 \rightarrow 1, 2, 4, 5, 10, 20$

Common factor $\rightarrow 1, 2, 4$

(e) 15, 18

$15 \rightarrow 1, 3, 5, 15$; $18 \rightarrow 1, 2, 3, 6, 9, 18$

Common factor $\rightarrow 1, 3$

Ex. 5.3

1. (a) 8

First 5 multiples of 8 = 8, 16, 24, 32, 40

(b) 6

First 5 multiples of 6 = 6, 12, 18, 24, 30

(c) 12

First 5 multiples of 12 = 12, 24, 36, 48, 60

(d) 14

First 5 multiples of 14 = 14, 28, 42, 56, 70

(e) 15

First 5 multiples of 15 = 15, 30, 45, 60, 75

2. (a) 24, 48, 72, 96, 120, 144 (b) 50, 100, 150, 200, 250, 300

(c) 14, 28, 42, 56, 70, 84 (d) 16, 32, 48, 64, 80, 96

(e) 9, 18, 27, 36, 45, 54 (f) 17, 34, 51, 68, 85, 102

3. (a) False (b) True (c) True (d) False

(e) False (f) True (g) True

Ex. 5.4

1. Total students = 34

$$34 = 1 \times 2 \times 17$$

Groups formed can be 1, 2, 17

2. $55 = 1 \times 5 \times 11$,

Number of piles can be 1, 5, 11

3. 80

Factors of 80 = 1, 2, 4, 5, 8, 10, 16, 20, 40

Number of bulks that can be made.

$$1, 2, 4, 5, 8, 10, 16, 20, 40$$

4. Factors of 36 \rightarrow 1, 2, 3, 4, 6, 9, 12, 18

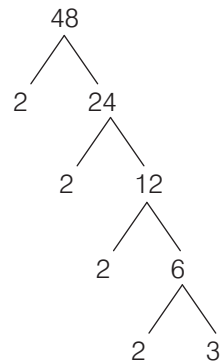
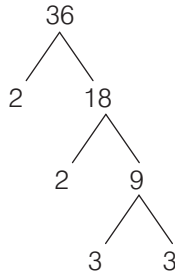
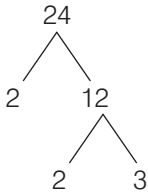
1, 2, 3, 4, 6, 9, 12, 18 batches can be made

5. Factors of 50 \rightarrow 1, 2, 5, 10, 25, 50

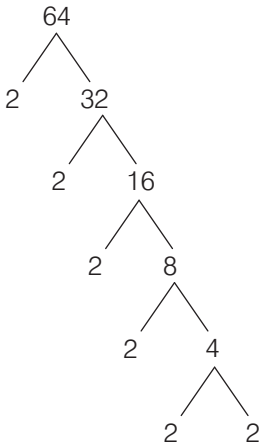
∴ Mangoes can be arranged in groups of 1, 2, 5, 10, 25, 50 in the basket

Sum up

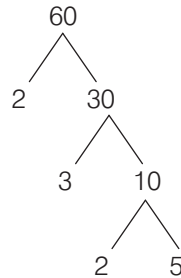
1. (a) (iii) (b) (ii) (c) (ii)
 2. (a) 4, 6 (b) 3, 9 (c) 40 (d) $6 \times 9 = 54$
 (e) Factor (f) Multiple
 3. (a) 24, 30, 36 (b) 100, 125, 150 (c) 20, 25, 30
 (d) 32, 40, 48
 4. (a) 24 (b) 36 (c) 48



(d) 64



(e) 60



5. (a) 24

$$1 \times 24$$

$$2 \times 12$$

$$3 \times 8$$

Factors of 24 \rightarrow 1, 2, 3, 8, 12, 24

(b) 12

$$1 \times 12$$

$$2 \times 6$$

$$3 \times 4$$

Factors of 12 \rightarrow 1, 2, 3, 4, 6, 12

(c) 20

$$1 \times 20$$

$$2 \times 10$$

$$4 \times 5$$

Factors of 20 \rightarrow 1, 2, 4, 5, 10, 20

(d) 36

$$1 \times 36$$

$$2 \times 18$$

$$3 \times 12$$

$$4 \times 9$$

$$6 \times 6$$

Factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

(e) 28

$$1 \times 28$$

$$2 \times 14$$

$$4 \times 7$$

Factors of 28 \rightarrow 1, 2, 4, 7, 14, 28

6. (a) 100

$$100 \div 1 = 100$$

$$100 \div 2 = 50$$

$$100 \div 4 = 25$$

$$100 \div 5 = 20$$

$$100 \div 10 = 10$$

Factors of 100 = 1, 2, 4, 5, 10, 20, 25, 50, 100

(b) 45

$$45 \div 1 = 45$$

$$45 \div 3 = 15$$

$$45 \div 5 = 9$$

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

(c) 36

$$36 \div 1 = 36$$

$$36 \div 2 = 18$$

$$36 \div 3 = 12$$

$$36 \div 4 = 9$$

$$36 \div 6 = 6$$

Factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

(d) 64

$$64 \div 1 = 64$$

$$64 \div 2 = 32$$

$$64 \div 4 = 16$$

$$64 \div 8 = 8$$

Factors of 64 = 1, 2, 4, 8, 16, 32, 64

(e) 78

$$78 \div 1 = 78$$

$$78 \div 2 = 39$$

$$78 \div 3 = 26$$

$$78 \div 6 = 13$$

Factors of 78 = 1, 2, 3, 6, 13, 26, 39, 78

Ex. 6.1

Do yourself

Ex. 6.2

1.

	Fraction	Numerator	Denominator
(a)	$\frac{1}{4}$	1	4
(b)	$\frac{1}{2}$	1	2
(c)	$\frac{2}{3}$	2	3
(d)	$\frac{1}{3}$	1	3
(e)	$\frac{3}{4}$	3	4
(f)	$\frac{4}{5}$	4	5

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

3. (a) Seven by eight

(b) One by five

(c) Two by five

(d) Three by five

(e) Three by seven

(f) Three by four

(g) Two by seven

4. (a) $\frac{6}{9}$ (b) $\frac{3}{7}$

(c) $\frac{5}{9}$ (d) $\frac{4}{8}$

Ex. 6.3

1. (a) $5\frac{9}{13}$

$$\frac{(13 \times 5) + 9}{13} = \frac{65 + 9}{13} = \frac{74}{13}$$

$$\begin{aligned} \text{(b) } 8\frac{2}{15} &= \frac{(15 \times 8) + 2}{15} \\ &= \frac{120 + 2}{15} = \frac{122}{15} \end{aligned}$$

$$\text{(c) } 10\frac{11}{12} = \frac{(10 \times 12) + 11}{12} = \frac{120 + 11}{12} = \frac{131}{12}$$

$$\text{(d) } 4\frac{3}{8} = \frac{(4 \times 8) + 3}{8} = \frac{32 + 3}{8} = \frac{35}{8}$$

$$\text{(e) } 7\frac{3}{12} = \frac{(7 \times 12) + 3}{12} = \frac{84 + 3}{12} = \frac{87}{12}$$

$$\text{(f) } 4\frac{7}{9} = \frac{(4 \times 9) + 7}{9} = \frac{36 + 7}{9} = \frac{43}{9}$$

2. (a) Mixed fraction

(b) Improper fraction

(c) Unit fraction

(d) Proper fraction

(e) Unit fraction

(f) Improper fraction

3. (a) $\frac{9}{11}$

(b) $\frac{2}{19}$

(c) $\frac{5}{16}$

(d) $\frac{5}{31}$

4. (a) $\frac{2}{9}, \frac{7}{9}$

(b) $\frac{8}{15}, \frac{7}{15}, \frac{3}{15}$

(c) $\frac{9}{17}, \frac{8}{17}$

(d) $\frac{11}{17}, \frac{15}{17}$

(e) $\frac{8}{21}, \frac{4}{21}$

(f) $\frac{2}{13}, \frac{5}{13}, \frac{7}{13}$

5. (a) $\frac{4}{9}, \frac{5}{9}, \frac{6}{9}, \frac{7}{9}$

(b) $\frac{3}{10}, \frac{4}{10}, \frac{5}{10}, \frac{6}{10}$

(c) $\frac{8}{21}, \frac{9}{21}, \frac{10}{21}, \frac{11}{21}$

(d) $\frac{7}{12}, \frac{8}{12}, \frac{9}{12}, \frac{10}{12}$

Mental Maths

1. $\frac{2}{5}, \frac{3}{7}, \frac{16}{21}, \frac{5}{9}$

2. $2\frac{1}{12}, 3\frac{2}{9}, 4\frac{7}{8}$

Beat the Clock

$$9\frac{13}{5} = \frac{(9 \times 5) + 13}{5}$$

$$= \frac{45 + 13}{5} = \frac{58}{5}$$

Ex. 6.4

1. (a) $\frac{11}{12}, \frac{5}{6}$

(b) $\frac{5}{16}, \frac{3}{10}$

$11 \times 6, 12 \times 5$

$5 \times 10, 16 \times 3$

$66 > 60$

$50, 48$

$\therefore \frac{11}{12} > \frac{5}{6}$

$50 > 48$

$\therefore \frac{5}{16} > \frac{3}{10}$

(c) $\frac{4}{5}, \frac{8}{10}$

(d) $\frac{5}{13}, \frac{2}{11}$

$4 \times 10, 5 \times 8$

$11 \times 5, 13 \times 2$

$40 = 40$

$55 > 26$

$$\frac{4}{5} = \frac{8}{10}$$

(e) $\frac{1}{5}, \frac{9}{16}$

$$16 \times 1, 9 \times 5$$

$$16 < 45$$

$$\frac{1}{5} < \frac{9}{16}$$

2. (a) $3\frac{1}{3} = \frac{10}{3}$

$$\frac{10}{3} = \frac{10}{3}$$

\therefore False

(c) $\frac{40}{7} = 5\frac{5}{7}$

$$\frac{40}{7} = \frac{40}{7}$$

True

(e) $\frac{9}{11}, \frac{5}{9}$

$$9 \times 9, 11 \times 5$$

$$81 > 55$$

False

$$\frac{5}{13} > \frac{2}{11}$$

(f) $\frac{20}{7}, \frac{18}{9}$

$$20 \times 9, 18 \times 7$$

$$180 > 126$$

$$\frac{20}{7} > \frac{18}{9}$$

(b) $\frac{19}{5}, \frac{20}{6}$

$$19 \times 6, 20 \times 5$$

$$114, 100$$

$$114 > 100$$

$$\therefore \frac{19}{5} > \frac{20}{6}$$

True

(d) $\frac{5}{9}, \frac{4}{8}$

$$8 \times 5, 9 \times 4$$

$$40 > 36$$

$$\frac{5}{9} > \frac{4}{8} \text{ True}$$

(f) $\frac{51}{10} = 5\frac{1}{10}$

$$\frac{51}{10} > \frac{51}{10}$$

False

Ex. 7.1

Do yourself

Mental Maths

$140 \text{ cm} = 1 \text{ m } 40 \text{ cm};$

$5 \text{ m } 35 \text{ cm} = 535 \text{ cm}$

$147 \text{ cm} = 1 \text{ m } 47 \text{ cm};$

$9 \text{ m } 51 \text{ cm} = 951 \text{ cm}$

$249 \text{ cm} = 2 \text{ m } 49 \text{ cm};$

$6 \text{ m } 8 \text{ cm} = 608 \text{ cm}$

Ex. 7.2

- | | | | |
|-------------|------------|------------|------------|
| (a) 400 cm | (b) 900 cm | (c) 820 cm | (d) 850 cm |
| (e) 1000 cm | (f) 195 cm | (g) 524 cm | (h) 245 cm |
- | | |
|---------------|---------------|
| (a) 6 m 40 cm | (b) 4 m 20 cm |
| (c) 1 m 7 cm | (d) 5 m 67 cm |
| (e) 9 m 72 cm | (f) 9 m 80 cm |
| (g) 1 m 25 cm | (h) 1 m 8 cm |

Ex. 7.3

- | | | | |
|------------|------------|------------|------------|
| (a) 8000 m | (b) 6500 m | (c) 4500 m | (d) 9500 m |
| (e) 7000 m | (f) 3500 m | (g) 5000 m | (h) 4000 m |
- | | | | |
|----------------|----------------|----------------|---------------|
| (a) 7 km | (b) 1 km 340 m | (c) 9 km 7 m | (d) 5 km 90 m |
| (e) 2 km 760 m | (f) 5 km | (g) 7 km 800 m | |
| (h) 6 km 450 m | | | |

- Distance travelled by Anuska = $3 \text{ km} \times 2$

$$= 6 \text{ km} = 6 \times 1000 \text{ m}$$

$$= 6000 \text{ m}$$

Ans = 6000 m

- Length of graden = 150 m

Distance covered in 8 rounds = 150×8

$$= 1200 \text{ m} = 1 \text{ km } 200 \text{ m}$$

Ans = 1 km 200 m

$$3. (a) \frac{4}{13} < \frac{5}{13} < \frac{7}{13} < \frac{8}{13} < \frac{9}{13}$$

$$(b) \frac{8}{21} < \frac{10}{21} < \frac{13}{21} < \frac{15}{21} < \frac{17}{21}$$

$$(c) \frac{12}{23} < \frac{15}{23} < \frac{16}{23} < \frac{17}{23} < \frac{18}{23}$$

$$(d) \frac{5}{12} < \frac{7}{12} < \frac{8}{12} < \frac{9}{12} < \frac{10}{12}$$

$$(e) \frac{15}{24} < \frac{15}{20} < \frac{15}{19} < \frac{15}{18} < \frac{15}{16}$$

$$4. (a) \frac{19}{20} > \frac{18}{20} > \frac{14}{20} > \frac{12}{20} > \frac{11}{20}$$

$$(b) \frac{25}{27} > \frac{21}{27} > \frac{19}{27} > \frac{16}{27} > \frac{15}{27}$$

$$(c) \frac{18}{17} > \frac{18}{19} > \frac{18}{21} > \frac{18}{23} > \frac{18}{25}$$

$$(d) \frac{15}{17} > \frac{15}{20} > \frac{15}{28} > \frac{15}{29} > \frac{15}{41}$$

Sum up

$$1. \frac{9}{10}, \frac{18}{20}, \frac{27}{30}, \frac{36}{40}$$

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

$$3. (a) 5\frac{1}{6} = \frac{31}{6}$$

$$(b) 11\frac{10}{13} = \frac{153}{3}$$

$$4. (a) \frac{44}{132} = \frac{1}{3}$$

$$(b) \frac{65}{260} = \frac{1}{4}$$

$$5. (a) \frac{19}{20} > \frac{19}{27} > \frac{19}{29} > \frac{19}{30} > \frac{19}{38}$$

$$(b) \frac{17}{43} < \frac{19}{43} < \frac{21}{43} < \frac{34}{43}, \frac{38}{43}$$

$$6. (a) \frac{8}{13}, \frac{5}{7}$$

$$(b) \frac{3}{8}, \frac{6}{16}$$

$$7 \times 8, 13 \times 5$$

$$16 \times 3, 6 \times 8$$

$$56 < 65$$

$$48 = 48$$

$$\frac{8}{13} < \frac{5}{7}$$

$$\therefore \frac{3}{8} = \frac{6}{16}$$

$$(c) \frac{10}{11}, \frac{9}{13}$$

$$(d) \frac{5}{21}, \frac{13}{42}$$

$$13 \times 10, 11 \times 9$$

$$42 \times 5, 21 \times 13$$

$$130 > 99$$

$$210 < 273$$

$$\frac{10}{11} > \frac{9}{13}$$

$$\frac{5}{21} < \frac{13}{42}$$

Ex. 7.4

1. Lace required = Perimeter of the board.

$$\begin{aligned}\text{Lace required} &= 42 + 30 + 42 + 30 \\ &= 144 \text{ cm} = 1 \text{ m } 44 \text{ cm}\end{aligned}$$

2. (a) Perimeter = Sum of length of a 11 dies

$$= 1 + 1 + 2 + 2 + 3 + 3 + 1 + 1 + 4 + 4 = 22 \text{ cm}$$

(b) Perimeter = $3 + 9 + 6 = 12 + 6 = 18 \text{ cm}$

(c) Perimeter = $2 + 2 + 2 + 2 + 3 + 3 + 6 = 20 \text{ cm}$

(d) Perimeter = $5 + 5 + 1 + 1 + 1 + 1 + 2 + 2 + 2 + 2 + 5 + 5$
 $= 32 \text{ cm}$

(e) Perimeter = $5 + 5 + 2 + 2 = 14 \text{ cm}$

(f) Perimeter = $7 + 7 + 3 + 3 = 14 = 20 \text{ cm}$

(g) Perimeter = $8 + 8 + 4 + 4 = 24 \text{ cm}$

3. Do yourself

4. Do yourself

Beat the Clock

Do yourself

Ex. 7.5

1. (a) 7000 ml (b) 6500 ml (c) 4000 ml (d) 3500 ml

(e) 5000 ml (f) 19500 ml (g) 8500 ml (h) 17000 ml

2. (a) 3 l 500 ml (b) 6 l 240 ml (c) 4 l 500 ml

(d) 7 l 500 ml (e) 5 l 250 ml (f) 9 l 580 ml

(g) 2 l 670 ml (h) 8 l 765 ml

3. Capacity each vessels = 400 ml

$$\text{Capacity of bottle} = 400 \times 5 = 2000 \text{ ml} = 2 \text{ l}$$

$$\therefore \text{Capacity of bottle} = 2 \text{ l}$$

4. Capacity of Jar = 3 l 500 ml

$$\text{Capacity of glass} = 500 \text{ ml}$$

$$\therefore \text{Number of glasses} = 3500 \div 500 \quad \therefore 7 \text{ glasses can be filled.}$$

5. Capacity of 1 bottle = 500 ml

$$\therefore \text{Capacity of 5 bottles} = 500 \times 5 = 2500 \text{ ml} = 2 \text{ l } 500 \text{ ml}$$

∴ 2 l 500 ml milk can be filled in 5 bottles

6. Total milk = 2 l = 2000 ml

Quantity each friend get = $2000 \div 10 = 200$ ml

∴ Each friend got 200 ml of milk

Ex. 7.6

1. (a) 3000 g (b) 3500 g (c) 9000 g (d) 2250 g
(e) 4000 g (f) 1500 g (g) 8250 g (h) 4250 g

2. (a) 3 kg 600 g (b) 4 kg 200 g (c) 9 kg 280 g
(d) 3 kg 700 g (e) 1 kg 400 g (f) 2 kg 710 g
(g) 7 kg 890 g (h) 5 kg 470 g

Sum up

1. (a) (iii) (b) (ii) (c) (iv)
2. (a) (v) (b) (iv) (c) (i) (d) (iii) (e) (ii)

3. (a) 630 m = 6 m 30 cm (b) 7 m 25 cm = 725 cm
(c) 8420 kg = 8 kg 420 g (d) 8 km 500 m = 8500 m

4. Do yourself

5. Capacity of each glass = 250 ml

Number of glasses = 7

∴ Total milk = $250 \times 7 = 1750$ ml = 1 l 750 ml

Ans = 1 l 750 ml

6. Capacity of 1 cup = 75 ml.

Number of cups required to = $900 \div 75$

hold 900 ml

$$\begin{array}{r} 12 \\ 75 \overline{)900} \\ \underline{75} \\ 150 \\ \underline{150} \\ 000 \end{array}$$

Ans = 12 cups

7. Cost of 5 kg of peas = ₹ 200

Cost of 1 kg = $200 \div 5$

$$\begin{array}{r} 40 \\ 5 \overline{)200} \\ \underline{20} \\ 000 \end{array}$$

\therefore cost of 1 kg = ₹ 40

8. Capacity of 1 bottle = 300 ml

Capacity of 5 bottles = 300×5

$$= 1500 \text{ ml} = 1 \text{ l } 500 \text{ ml}$$

5 bottles can hold 1 l 500 ml of Juice

9. Weight of one packet of rice = 150 g

Number of packets required to = $3000 \div 150$

make 3 kg

$$3 \text{ kg} = 3000 \text{ g}$$

$$\begin{array}{r} 20 \\ 150 \overline{)3000} \\ \underline{300} \\ 000 \end{array}$$

\therefore 20 packets will be needed to make 3 kg

CHAPTER 08

Ex. 8.1

1. Do yourself

2. (a) Perimeter = $9 + 9 + 12 + 12 = 18 + 24 = 42 \text{ cm}$

(b) Perimeter = $13 + 13 + 5 + 5 = 26 + 10 = 36 \text{ cm}$

(c) Perimeter = $5 + 5 + 9 + 9 = 10 + 18 = 28 \text{ cm}$

(d) Perimeter = $4 + 4 + 4 = 12 \text{ cm}$

(e) Perimeter = $3 + 3 + 5 = 6 + 5 = 11 \text{ cm}$

(f) Perimeter = $8 + 8 + 5 + 5 = 16 + 10 = 26 \text{ cm}$

3. Do yourself

$$\begin{aligned}
 4. \text{ (a) Perimeter} &= 2 + 3 + 1 + 1 + 1 + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \\
 &= 9 + \frac{1}{2} = 9\frac{1}{2} \text{ units}
 \end{aligned}$$

$$\text{(b) Perimeter} = 1 + 1 + 4 + 3 + 2 = 11 \text{ units}$$

$$\begin{aligned}
 \text{(c) Perimeter} &= 1 + 4 + 1 + 1\frac{1}{2} + 1\frac{1}{2} + 3 + 3 + 1 \\
 &= 15 + 1 = 16 \text{ units}
 \end{aligned}$$

Beat the Clock

$$\text{(a) } 15 \text{ cm} \quad \text{(b) } 114 \text{ cm} \quad \text{(c) } 53 \text{ cm}$$

$$\text{(d) } 47 \text{ cm}$$

Mental Maths

Do yourself

Ex. 8.2

$$1. \text{ (a) Perimeter of square} = 64 + 64 + 64 + 64 = 256 \text{ cm}$$

$$\text{(b) Perimeter of square} = 34 + 34 + 34 + 34 = 136 \text{ cm}$$

$$\text{(c) Perimeter of square} = 92 + 92 + 92 + 92 = 368 \text{ cm}$$

$$\text{(d) Perimeter of square} = 17 + 17 + 17 + 17 = 68 \text{ cm}$$

$$2. \text{ (a) Perimeter of triangle} = 13 + 14 + 15 = 42 \text{ cm}$$

$$\text{(b) Perimeter of triangle} = 12 + 12 + 12 = 36 \text{ cm}$$

$$\text{(c) Perimeter of triangle} = 6 + 8 + 12 = 26 \text{ cm}$$

$$\text{(d) Perimeter of triangle} = 12 + 20 + 18 = 50 \text{ cm}$$

$$3. \text{ (a) Perimeter of rectangle} = 2(l + b)$$

$$= 2(31 + 16) = 2(47) = 94 \text{ cm}$$

$$\text{(b) Perimeter of rectangle} = 2(l + b) = 2(20 + 10) = 2(30)$$

$$= 60 \text{ cm}$$

$$4. \text{ (a) Perimeter of rectangle} = 80$$

$$\text{length} = 28$$

$$\therefore \text{ Breadth} = ?$$

$$\text{Perimeter of rectangle} = 2(l + b)$$

$$80 = 2(l + b)$$

$$80 = 2(28 + b)$$

$$\frac{80}{2} = 28 + b$$

$$40 - 28b; b = 12 \text{ cm}$$

(b) Perimeter = 230 cm

Breadth = 50 cm

length = ?

Perimeter of rectangle = $2(l + b)$

$$230 = 2(l + 50)$$

$$\frac{230}{2} = l + 50$$

$$115 = l + 50$$

$$115 - 50 = l$$

$$l = 65 \text{ cm}$$

(c) Perimeter = 268

length = 84 cm

Breadth = ?

Perimeter of rectangle = $2(l + b)$

$$268 = 2(84 + b)$$

$$\frac{268}{2} = 84 + b; 134 = 84 + b$$

$$134 - 84 = b$$

$$\text{Breadth} = 50 \text{ cm}$$

(d) Perimeter = 360 cm

length = ?

Breadth = 80 cm

Perimeter of rectangle = $2(l + b)$

$$360 = 2(l + 80)$$

$$\frac{360}{2} = l + 80$$

$$180 = l + 80$$

$$100 + l$$

$$l = 100$$

$$\therefore \text{length} = 100 \text{ cm}$$

(e) Perimeter = ?

$$\text{length} = 76 \text{ cm}$$

$$\text{Breadth} = 47 \text{ cm}$$

$$\text{Perimeter} = 2(l + b)$$

$$= 2(76 + 47) = 2(123) = 246 \text{ cm}$$

Beat the Clock

Do yourself

Ex. 8.3

1. Do yourself

2. (a) 12 sq. cm. (b) 5 sq. cm. (c) 15 sq. cm.

(d) 12 sq. cm.

3. (a) 16 sq. cm. (b) 8 sq. cm. (c) 23 sq. cm. (d) 12 sq. cm.

4. (a) 5 sq. cm. (b) 6 sq. cm. (c) 7 sq. cm. (d) 5 sq. cm.

(e) 3 sq. cm. (f) 8 sq. cm. (g) 6 sq. cm. (h) 9 sq. cm.

(i) 7 sq. cm. (j) 9 sq. cm.

Biggest - (h) (j)

Smallest (e)

5. M = 12 sq. units A = 13 sq. units

T = 7 sq. units H = 12 sq. units

S = 10 sq. units

Total area of the word MATHS = 54 sq. units.

6. (a) 10 sq. cm. (b) 8 sq. cm. (c) 4 sq. cm.

7. (a) 8 sq. cm. (b) 9 sq. cm. (c) 9 sq. cm.

Ex. 8.4

1. (a) Area = $L \times B = 55 \times 22 = 1210 \text{ cm}^2$ or sq. cm.

(b) Area = $L \times B = 38 \times 16 = 608 \text{ cm}^2$ or sq. cm.

(c) Area = $L \times B = 18 \times 10 = 180 \text{ cm}^2$ or sq. cm.

(d) Area = $14 \times 3 = 42 \text{ cm}^2$ or sq. cm.

2. (a) Area of Square = Side \times Side = $17 \times 17 = 289 \text{ cm}^2$ or sq. cm.

(b) Area of square = $88 \times 88 = 7744 \text{ m}^2$ or sq. m.

(c) Area of square = $14 \times 14 = 196 \text{ m}^2$ or sq. m.

(d) Area of square = $22 \times 22 = 484 \text{ cm}^2$ or sq. m.

3. Area of flag = $(15 \times 4) + (1.5 \times 14) = 60 + 21 = 81 \text{ sq. cm.}$

4. Area of rectangular floor = $L \times B$

$$= 10 \times 12 = 120 = 120 \text{ sq. m. or m}^2$$

5. Breadth of rectangular plot = 25 m

Length of rectangular plot = $(25 + 7) \text{ m} = 32 \text{ m}$

$$\therefore \text{Area} = L \times B = 32 \times 25$$

$$\text{Area} = 800 \text{ m}^2 \text{ or sq. m.}$$

6. Side of square = 68 cm.

$$\therefore \text{Area of Square} = \text{Side} \times \text{Side} = 68 \times 68 = 4624 \text{ cm}^2 \text{ or sq. cm.}$$

7. Breadth of rectangular plot = 18 cm

Length of plot = $(18 + 2) = 20 \text{ cm}$

$$\therefore \text{Area of rectangular plot} = L \times B = 20 \times 18 = 360 \text{ sq. cm. or cm}^2$$

8. Area of Square Park = Side \times Side = $15 \times 15 = 225 \text{ sq. cm. or cm}^2$

Sum up

1. (a) (iv) (b) (ii) (c) (ii)

2. (a) 9 (b) 20 (c) 28 (d) 18

3. (a) Perimeter = $5 + 4 + 6 = 5 + 10 = 15 \text{ cm}$

(b) Perimeter $4 + 2 + 3 + 7 + 5 = 21 \text{ cm}$

(c) Perimeter = $8 + 8 + 3 + 3 = 16 + 6 = 22 \text{ cm}$

(d) Perimeter = $2 + 2 + 2 + 2 + 4 + 4 = 16 \text{ cm}$

4. Length of rectangle = 22 cm; Breadth of rectangle = 20 cm

Perimeter of rectangle = $2(L + B) = 2(22 + 20) = 2(42) = 84 \text{ cm}$

Area of rectangle = $L \times B = 22 \times 20 = 440 \text{ sq. cm.}$

5. Perimeter of triangle = $24 + 26 + 10 = 60 \text{ cm}$

6. Side of square = 25 cm

Area of square = Side \times Side = $25 \times 25 = 625 \text{ sq. cm. or cm}^2$

Perimeter of square = $25 + 25 + 25 + 25 = 50 + 50 = 100$ cm

7. Perimeter of triangle = $16 + 12 + 16 = 32 + 12 = 44$ m.

8. Side of square = 50 cm

Perimeter of square = $50 + 50 + 50 + 50 = 200$ cm

CHAPTER 09

Ex. 9.1

1. (a) O (b) O (c) C (d) C

(e) C (f) O (g) C (h) C

2. (c), (e), (g), (h)

Ex. 9.2

1. (a) False (b) True (c) False (d) True

2. (a) Hexagon (b) Rectangle (c) Pentagon (d) Square

(e) Triangle

3. Do yourself

4. Do yourself

Mental maths

1. $10 \times 2 = 20$ cm

2. $18 \div 2 = 9$ cm

Diameter = 20 cm

Radius = 9 cm

Ex. 9.3

1.

Circle	Diameter	Radius
(a)	8	4
(b)	4	2
(c)	10	5
(d)	12	6
(e)	6	3

2. (a) (i) Centre = O

(ii) Diameter = PQ

(iii) Radius = OR

(iv) Radius (v) Diameter

(b) (i) Centre = O

(ii) Diameter = AB

(iii) Radius = OC

(iv) OC = Radius (v) AB = diameter

3. Do yourself

4. Do yourself

5. (a) Diameter (b) Half

(c) Round

(d) Radius

(e) Centre (f) Radii

6. (a) $r = 25 \text{ cm}$

$$d = r \times 2$$
$$= 25 \times 2 = 50 \text{ cm}$$

(c) $r = 7 \text{ m}$

$$d = r \times 2$$
$$= 7 \times 2$$
$$= 14 \text{ m}$$

(e) $r = 10 \text{ cm}$

$$d = r \times 2$$
$$= 10 \times 2$$

$$d = 20 \text{ cm}$$

(g) $r = 3 \text{ cm}$

$$d = r \times 2$$
$$= 3 \times 2$$
$$d = 6 \text{ cm}$$

7. (a) $d = 34 \text{ cm}$

$$r = \frac{d}{2} = \frac{34}{2}$$

$$r = 17 \text{ cm}$$

(c) $d = 56 \text{ cm}$

$$r = \frac{d}{2} = \frac{56}{2}$$

$$r = 28 \text{ cm}$$

(e) $d = 20 \text{ cm}$

$$r = \frac{d}{2} = \frac{20}{2}$$

$$r = 10 \text{ cm}$$

(g) $d = 12 \text{ cm}$

$$r = \frac{d}{2} = \frac{12}{2}$$

$$r = 6 \text{ cm}$$

(g) Circumference

(b) $r = 13 \text{ m}$

$$d = r \times 2$$
$$= 13 \times 2 = 26 \text{ m}$$

(d) $r = 19 \text{ m}$

$$d = r \times 2$$
$$= 19 \times 2$$
$$= 38 \text{ m}$$

(f) $r = 15 \text{ cm}$

$$d = r \times 2$$
$$= 15 \times 2$$

$$d = 30 \text{ cm}$$

(h) $r = 5 \text{ m}$

$$d = r \times 2$$
$$= 5 \times 2$$
$$d = 10 \text{ m}$$

(b) $d = 70 \text{ cm}$

$$r = \frac{d}{2} = \frac{70}{2}$$

$$r = 35 \text{ cm}$$

(d) $d = 26 \text{ cm}$

$$r = \frac{d}{2} = \frac{26}{2}$$

$$r = 13 \text{ cm}$$

(f) $d = 46 \text{ cm}$

$$r = \frac{d}{2} = \frac{46}{2}$$

$$r = 23 \text{ cm}$$

(h) $d = 8 \text{ cm}$

$$r = \frac{d}{2} = \frac{8}{2}$$

$$r = 4 \text{ cm}$$

(h) Centre

Ex. 9.4

Do yourself

Ex. 9.5

1. (a) True (b) True (c) False (d) False
(e) True (f) False (g) True (h) False

2. Do yourself

3. Do yourself

Sum up

1. (a) (iii) (b) (iv) (c) (i)
2. (b) (d)
3. (a) R (b) N (c) N (d) R
4. Diameter = 22 cm

$$\text{Radius} = \frac{d}{2} = \frac{22}{2} = 11 \text{ cm}$$

5. (a) Quadrilateral (b) Closed (c) Diameter
(d) Hexagon (e) Symmetrical
6. $r = 7 \text{ cm}$; $d = r \times 2 = 7 \times 2$; $d = 14 \text{ cm}$

Ex. 10.1

1. (a) 2 O' clock (b) 10:30 (c) 4:30 (d) 9 O' clock
(e) 6 O' clock (f) 8 O' clock (g) 1 O' clock
(h) 10 O' clock (i) 1:30
2. (a) 2:40 p.m., 1440 hours (b) 7:15, 1915 hours
(c) 8:45 p.m., 2045 hours (d) 1 p.m., 1330 hours
(e) 12:01 a.m., 00:01 hours (f) 4:45, 1645 hours
(g) 10:50 a.m., 1050 hours (h) 12:03 p.m., 1203 hours
(i) 5:30 p.m., 1730 hours (j) 7:30 a.m., 0730 hours
3. (a) 5:45 pm (b) 0645 hours (c) 2040 hours
(d) 1330 hours (e) Refreshment (f) 5 pm

Ex. 10.2

1. 3:40 to 4:00 = 20 minutes
4:00 to 5:00 = 1 hour

5:00 to 5:10 = 10 minutes 1 hour 30 minutes

The match lasted for 1 hour 30 minutes

- 2.** 7:00 a.m. to 8:00 a.m. = 1 hour

8:00 a.m. to 8:20 a.m. = 20 minutes

1 hour 20 minutes

His journey took 1 hour 20 minutes

- 3.** 10:30 a.m. to 11:00 a.m. = 30 minutes

11:00 a.m. to 12:00 p.m. = 1 hour

12:00 p.m. to 1:00 p.m. = 1 hour

1:00 p.m. to 2:00 p.m. = 1 hour

2:00 p.m. to 3:00 p.m. = 1 hour

3:00 p.m. to 4:00 p.m. = 1 hour

4:00 p.m. to 4:20 p.m. = 20 minutes

5 hours 50 minutes

The journey took 5 hours 50 minutes

- 4.** Samita leaves home + 6:30 a.m.

Time taken to reach school = 40 minutes

6:30

40

7:10

She reaches school as 7:10 a.m.

- 5.** Time film starts = 3:15 p.m.

duration of film = 2 hours 40 minutes

3:15

2:40

5:55

The show will end by 5:55 p.m.

- 6.** Time bus leaves for shimla = 7:30 a.m.

Time taken to reach shimla = 9 hours

7:30

9:00

16:30

16:30 = 4:30 p.m.

The bus will reach shimla at 4:30 p.m. in the evening.

Ex. 10.3

1. (a) 365 days (b) 366 day (c) 3 years 7 months
(d) 35 week = 8 month 3 weeks
2. (a) True (b) False (c) False (d) True
3. Days is January = $(31 - 7) = 24$ days
Days in February = 24 days; Days in March = 2 days
Total days he was on leave 55 days
He was on leave for 55 days
4. Days in May = $31 - 9 = 22$; Days in June = 11
She was in Mumbai for = 33 days
She was in Mumbai for 33 days

Mental Maths -

Do yourself

Sum up

1. (a) 50 (b) 45 (c) 30
2. (a) 15 minutes (b) 45 minutes (c) 15 minutes
(d) 30 minutes
3. (a) P.M. (b) A.M. (c) P.M. (d) P.M.
(e) A.M.
4. (a) One (b) 24 (c) 5
5. Days of September = $30 - 6 = 24$
Day of October = 6; 30 days
 \therefore The fair lasted for 30 days.
6. Days of January = $31 - 15 = 16$
Days of February = 9
 $\underline{25}$ days
She was on leave for 25 days

CHAPTER 11

Beat the Clock

- (a) 6745 p < ₹ 68 (b) < (c) <
(d) > (e) = (f) < (g) > (h) >

Ex. 11.1

1. (a) ₹ 12.94 (b) ₹ 85.09 (c) ₹ 76.32 (d) ₹ 504.11
(e) ₹ 69.96
2. (a) ₹ 29.16 (b) ₹ 429.16 (c) ₹ 56.20 (d) ₹ 542.42
(e) ₹ 65.88 (f) ₹ 340.40 (g) ₹ 350.05 (h) ₹ 692.09
3. (a) Rupees four hundred eighty nine and one paise
(b) Rupees seven hundred nine and three paise
(c) Rupees one hundred and eight and twenty paise
(d) Rupees twenty four and ninety paise
(e) Rupees twenty five and forty five paise
4. (a) 4536 (b) 85263 (c) 9020 (d) 26338
(e) 45656 (f) 80003 (g) ₹ 856.28 (h) ₹ 385.04
(i) ₹ 300.90 (j) ₹ 416.92
5. (a) 8345 P (b) 7898 P (c) 51253 P (d) 10810 P
(e) 210034 P (f) 92050 P (g) 78307 P (h) 18150 P

Ex. 11.2

1. (a) ₹ P
48 29
+ 78 63
126 92
- (c) ₹ P
35 05
+ 69 98
105 03
- (e) ₹ P
39 27
81 49
+ 76 82
197 58
- (b) ₹ P
105 34
+ 28 76
134 10
- (d) ₹ P
125 92
17 98
143 90
- (d) ₹ P
392 45
98 07
+ 9 34
499 86

$$\begin{array}{r}
 \text{(g) ₹ P} \\
 183 \quad 95 \\
 93 \quad 87 \\
 + 20 \quad 50 \\
 \hline
 298 \quad 32
 \end{array}$$

$$\begin{array}{r}
 \text{(h) ₹ P} \\
 45 \quad 54 \\
 92 \quad 92 \\
 + 100 \quad 29 \\
 \hline
 238 \quad 75
 \end{array}$$

$$\begin{array}{r}
 \mathbf{2. (a) ₹ P} \\
 95 \quad 83 \\
 - 21 \quad 74 \\
 \hline
 74 \quad 09
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹ P} \\
 56 \quad 50 \\
 - 12 \quad 49 \\
 \hline
 44 \quad 01
 \end{array}$$

$$\begin{array}{r}
 \text{(c) ₹ P} \\
 70 \quad 75 \\
 - 29 \quad 68 \\
 \hline
 41 \quad 07
 \end{array}$$

$$\begin{array}{r}
 \text{(d) ₹ P} \\
 105 \quad 34 \\
 - 44 \quad 87 \\
 \hline
 60 \quad 47
 \end{array}$$

$$\begin{array}{r}
 \text{(e) ₹ P} \\
 262 \quad 300 \\
 - 76 \quad 93 \\
 \hline
 185 \quad 07
 \end{array}$$

$$\begin{array}{r}
 \text{(f) ₹ P} \\
 615 \quad 05 \\
 - 129 \quad 27 \\
 \hline
 485 \quad 78
 \end{array}$$

$$\begin{array}{r}
 \text{(g) ₹ P} \\
 182 \quad 90 \\
 - 97 \quad 05 \\
 \hline
 85 \quad 85
 \end{array}$$

$$\begin{array}{r}
 \text{(h) ₹ P} \\
 400 \quad 00 \\
 129 \quad 27 \\
 \hline
 270 \quad 73
 \end{array}$$

Ex. 11.3

1. (a)

Items	Quantity	Price (in ₹)
Atta	5 kg	72.50
Washing soap	2 kg	56.50
4 × Soap	4 pieces	72.00
	Total	201.00

(b)

Items	Quantity	Price (in)
Rice	3 kg	136.50
Butter	500 g	62.00
Potato Chips	1 packet	16.60
Salt	5 kg	25.00
	Total	240.10

(c)

Items	Quantity	Price (in ₹)
Atta	4 kg	58.00
Sugar	3 kg	50.10
Bread	5 packets	77.50
Salt	1 kg	05.00
	Total	190.60

(d)

Items	Quantity	Price (in ₹)
Butter	500 g	62.50
Bread	1 packte	15.50
Potato chips	3 packets	49.80
	Total	127.30

$$\begin{array}{r} 2. (a) \quad ₹ 196.75 \\ ₹ 272.40 \\ + ₹ 304.50 \\ \hline ₹ 773.65 \end{array} \qquad \begin{array}{r} ₹ 1000.00 \\ - ₹ 773.65 \\ \hline ₹ 226.35 \end{array}$$

₹ 226.35 will be returned back

$$\begin{array}{r} (b) \quad ₹ 208.75 \\ ₹ 106.40 \\ ₹ 282.95 \\ ₹ 195.70 \\ \hline ₹ 793.80 \end{array} \qquad \begin{array}{r} ₹ 1000.00 \\ - ₹ 793.80 \\ \hline ₹ 206.20 \end{array}$$

₹ 206.20 will be returned back

(c) ₹ 306.95	₹ 1000.00
₹ 289.50	– ₹ 782.35
₹ 101.70	<u>0217.65</u>
₹ 56.80	
+ ₹ 27.40	
<u>782.35</u>	₹ 217.65 will be returned back

(d) ₹ 125.00	₹ 1000.00
₹ 179.00	– ₹ 497.00
₹ 78.00	<u>503.00</u>
₹ 115.00	
<u>497.00</u>	₹ 503 will be returned back

Beat the Clock

1. Karuna bought bananas = $30 \times 3 = ₹ 90$

Karuna paid = ₹ 90

2. 5 pens

3. 23

4. 48.4

Ex. 11.4

1. (a) Cost of 1 note book = ₹ 37.20

Cost of 6 note books = 37.20×6

₹ 223.20

∴ 6 note books cost ₹ 223.20

(b) Cost of 1 pencil = ₹ 11.65

Cost of 7 pencils = 11.65×7

₹ 81.55

∴ 7 pencils cost ₹ 81.55

(c) Cost of 1 bottle = ₹ 23.75

Cost of 8 bottles = 23.75×8

= 190

₹ 190

∴ 8 bottles cost ₹ 190

(d) Cost of 1 eraser = ₹ 2.25
 Cost of 9 erasers = 2.25×9
 $= 20.25$
 $= \underline{\underline{₹ 20.25}}$ ∴ cost of a erasers in ₹ 20.25

(e) Cost of 1 book = ₹ 156.25
 ∴ cost of 5 books = 156.25×5
 $= \underline{\underline{₹ 781.25}}$
 ∴ 5 books cost ₹ 781.25

2. Cost of motor cycle = ₹ 41583

Cost of bicycle = + ₹ 1560.25
 $\underline{\underline{₹ 43143.25}}$

∴ Total cost of motor cycle and bicycle is ₹ 43143.25

3. Cost of 1 shirt = ₹ 125.75

Cost of 1 pans = ₹ 25.35

Cost of 1 tie = ₹ 95.90

$\underline{\underline{247.00}}$

Money given to shopkeeper = ₹ 500.00

Cost of all items = ₹ 247.00

Money given back by shopkeeper = 253.00

∴ The shopkeeper will return ₹ 253 back

4. Total cost of all items

Rice = ₹ 125.85

Sugar = ₹ 32.75

Tea = ₹ 16.28

Tootpaste = ₹ 51.35

$\underline{\underline{226.23}}$

Money given to shopkeeper = ₹ 1000.00

Cost of all items = ₹ 226.23

$\underline{\underline{₹ 773.77}}$

∴ Shopkeeper returned ₹ 773.77

5. Cost of 1 pen = ₹ 35.40

$$\begin{aligned}\therefore \text{cost of 5 pens} &= 35.40 \times 8 \\ &= \underline{\underline{\text{₹ } 283.20}}\end{aligned}$$

\therefore Cost of 8 pens is ₹ 283.20

6. Cost of 1 bag = ₹ 165.52

$$\therefore \text{cost of 12 bags} = 165.52 \times 12$$

$$\begin{array}{r} 165.52 \\ \times 12 \\ \hline 33104 \\ 165520 \\ \hline \underline{\underline{1986.24}} \end{array}$$

\therefore 12 bags cost ₹ 1986.24

7. Money earned in 7 days = ₹ 374.36

$$\therefore \text{Money earned in 1 day} = 374.36 \div 7$$

$$\begin{array}{r} 53.48 \\ 7 \overline{) 374.36} \\ \underline{35} \\ 24 \\ \underline{21} \\ 33 \\ \underline{28} \\ 56 \\ \underline{56} \\ \underline{\underline{00}} \end{array}$$

\therefore The man earns ₹ 53.48 in one day

Mental Maths

Do yourself

Sum up

1. (a) (ii)

(b) (i)

(c) (ii)

(d) (iii)

$$\begin{array}{r}
 \text{2. (a) ₹ P} \\
 75 \quad 81 \\
 + 81 \quad 75 \\
 \hline
 157 \quad 56
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹ P} \\
 105 \quad 76 \\
 + 85 \quad 81 \\
 \hline
 191 \quad 57
 \end{array}$$

$$\begin{array}{r}
 \text{(c) ₹ P} \\
 256 \quad 78 \\
 24 \quad 91 \\
 5 \quad 08 \\
 \hline
 286 \quad 77
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹ P} \\
 89 \quad 97 \\
 12 \quad 83 \\
 216 \quad 87 \\
 \hline
 319 \quad 67
 \end{array}$$

CHAPTER 12

Ex. 12.1

1. (a) 280 centimeters (b) 160 centimeters
 (c) 80 centimeters (d) 40 centimeters
 (e) 40 centimeters
2. 120 centimeters
3. 240 centimeters

Ex. 12.2

1. (a) Do yourself (b) 2 students (c) 4 students
 (d) Wednesday (e) Monday
2. (a) Do yourself (b) Saturn (c) 6 votes
 (d) Mercury and Uranus (e) 5 votes
 (f) False
3. (a) Do yourself (b) Tiger (c) 6 bugs (d) 9 bugs
 (e) False (f) Somya and Frazer

4. Do yourself

Ex. 12.3

1. Do yourself
2. (a) 25% (b) Section B
 (c) Section C and Section E (d) 5%

3. (a) Red (b) Blue (c) Green (d) No

4. (a) Swimming (b) Athletics (c) Football

Ex. 12.4

1. (a) Mrs. Clark (b) 34 Cans (c) Mrs. Miller's

(d) Mr. Smith's (e) Ms. Wilson (f) Mrs. Clark

(g) Do yourself

2. (a)   8

(b)  30

(c)  16

(d)  38

(e)  46

(f)  54


3. (a) 

(b) 

(c) 

(d) 

(e) 

(f) 

Maths MAGIC



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