ADDITIONAL™ PRACTICE

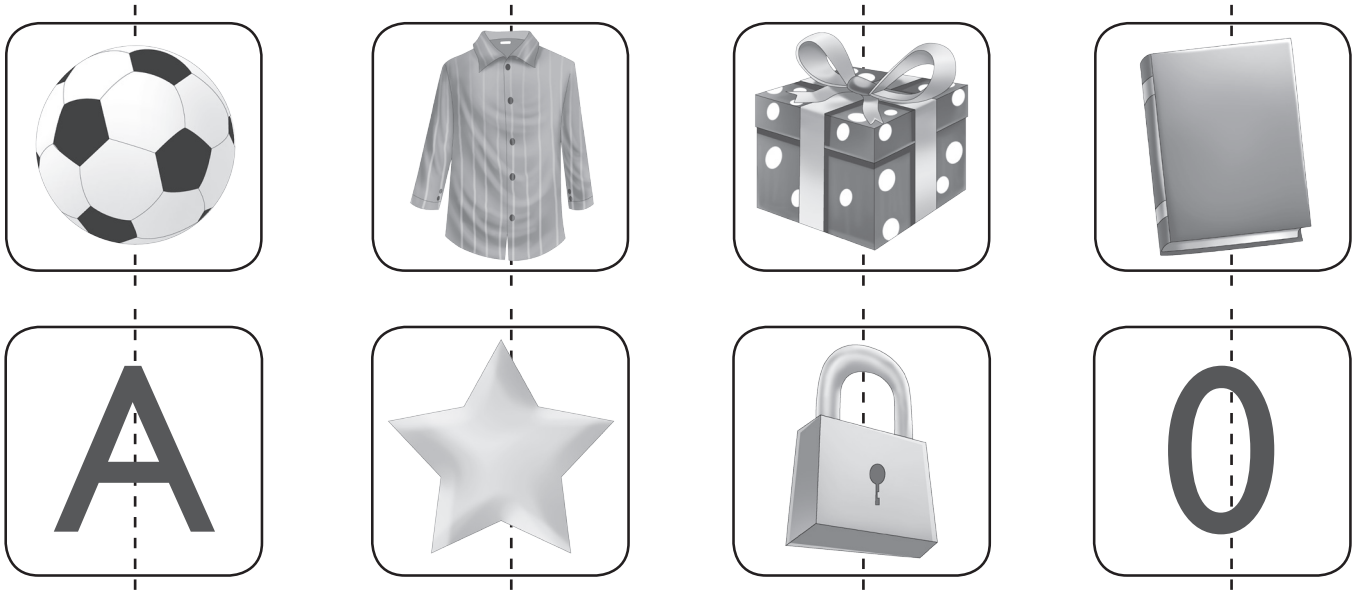
MATHEMATICS 3

Math Magic

Harbour Press®
INTERNATIONAL

Chapter 1

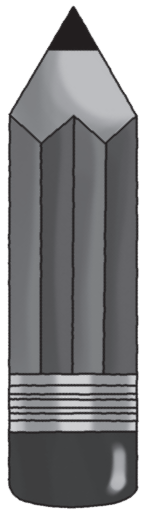
Where to Look From

1. (a) Front view
   (b) Side view
   (c) Side view
   (d) Front view
   (e) Side view
   (f) Top view
2. Do yourself.
3. Do yourself.
4. Do yourself.
5. (ii), (vii) and (viii)
6. 

7. (i) H
   (ii) O
   (iii) B
   (iv) U
   (v) S
   (vi) V
   (vii) M
   (viii) A
   (ix) E
   (x) D

8. (i)

(ii)



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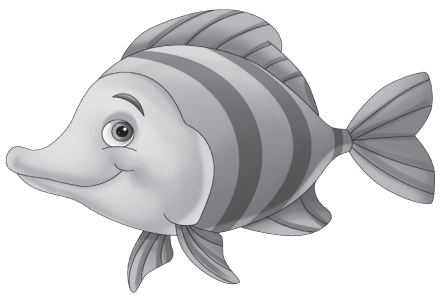


(iv)

(v)

(vi)

Chapter 2

Fun With Numbers

1. (i) Mango (ii) 10 (iii) 8
   (iv) Pear (v) Two (vi) 43

2. (i) Yuvraj scored 95 + 4 = 99 runs

   (ii)

Players	Runs needed to complete a century
Sachin	33
Dhoni	11
Rahul	24
Sehwag	57
Ajay	55
Azhar	88

3. (i) Eighty nine.
   (ii) One hundred forty three.
   (iii) One hundred eighty five.
   (iv) Two hundred seventy six.
   (v) Three hundred fifteen.
   (vi) Three hundred forty seven.

4. (ii) 300 + 20 + 6
   (iii) 400 + 90 + 9
   (iv) 100 + 10 + 1
   (v) 200 + 70 + 2

(vi) 100 + 80 + 8

5. (i) Sehwag (ii) 6
(iii) 41 (iv) Kumble, Prasad and Mongia
(v) Kumble

6. (i) 122 132 142 152
(ii) 110 125 140 155
(iii) 273 298 323 348
(iv) 400 440 480 520
(v) 525 575 625 675
(vi) 700 800 900 1000
(vii) 450 650 850 1050
(viii) 435 735 1035 1335

7. (i) 136, 141, 146, 151 (ii) 170, 160, 150, 140
(iii) 415, 465, 515, 565 (iv) 450, 350, 250, 150
(v) 536, 636, 736, 836

8. (a) 149
(b) 145
(c) 162
(d) Bunny
(e) Bunny and Tarru both jumps on step numbers 130, 150 and 170.

9.

	Number of Packets of 100	Number of Packets of 10	Loose items
(i)	2	1	2
(iii)	1	0	4
(iv)	0	9	7

(v)	1	4	1
(vi)	1	1	0

10. ₹ 589
₹ 100 notes = 5
₹ 10 notes = 8
₹ 1 coin = 9

₹ 455
₹ 100 notes = 4
₹ 10 notes = 5
₹ 1 coin = 5

₹ 87
₹ 100 notes = 0
₹ 10 notes = 8
₹ 1 coin = 7

₹ 111
₹ 100 notes = 1
₹ 10 notes = 1
₹ 1 coin = 1

11. (i) → 73 (ii) → 94 (iii) → 250 (iv) → 219 (v) → 146

12. (i) 213 (ii) 430 (iii) 130 (iv) 119

13. (i) $2 \times \boxed{10} + 7 \times \boxed{1}$

(ii) $4 \times \boxed{10} + \boxed{1}$

(iii) $\boxed{100} + 7 \times \boxed{10} + 5 \times \boxed{1}$

(iv) $3 \times \boxed{10} + \boxed{10} + 3 \times \boxed{1}$

(v) $9 \times \boxed{10} + 9 \times \boxed{1}$

(vi) $4 \times \boxed{100} + 8 \times \boxed{10}$

(vii) $2 \times \boxed{100} + \boxed{10} + 2 \times \boxed{1}$

(viii) $\boxed{1} \times \boxed{100} + 6 \times \boxed{10} + 7 \times \boxed{1}$

14. (i) Greatest three digit number = 942,

Smallest three digit number = 249

(ii) 547, 549, 551, 553, 555, 557, 559 and 561

(iii) 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226 and 228

(iv) 380, 370, 360, 350, 340, 330, 320, 310, 300, 290, 280, 270, 260, 250, 240, 230, 220

(v) One century = 100 runs

Sudhir scored = 60 runs

Runs required to score a century = 100 – 60 = 40 runs

(vi) Radha had 3 × ₹ 100 + 2 × ₹ 20 + 7 × ₹ 1 = ₹ 300 + ₹ 40 + ₹ 7 = ₹ 347

Chapter

3 Give and Take

1. (i) (c) (ii) (h) (iii) (g) (iv) (e)
   (v) (a) (vi) (d) (vii) (b) (viii) (j)
   (ix) (f) (x) (i)

2. (i) 77 (ii) 12 (iii) 27 (iv) 87
   (v) 113 (vi) 91 (vii) 41 (viii) 90

3. (ii) 71 + 23 = 70 + 1 + 20 + 3
   = 70 + 20 + 1 + 3
   = 90 + 4
   = 94

   (iii) 43 + 54 = 40 + 3 + 50 + 4
   = 40 + 50 + 3 + 4
   = 90 + 7
   = 97

   (iv) 31 + 41 = 30 + 1 + 40 + 1
   = 30 + 40 + 1 + 1
   = 70 + 2
   = 72

   (v) 43 + 54 = 40 + 3 + 50 + 4
   = 40 + 50 + 3 + 4
   = 90 + 7
   = 97

4. (i) (b) (ii) (a) (iii) (a) (iv) (c) (v) (b) (vi) (c)

5. (i) (a) (ii) (a) (iii) (a) (iv) (c) (v) (b) (vi) (c)

6. (ii) 79

70 + 9
38 + 41
35 + 44
24 + 55
14 + 65

(iii) 94

50 + 44
47 + 47
52 + 42
18 + 76
24 + 70

(iv) 112

63 + 49
0 + 112
65 + 47
37 + 75
96 + 16

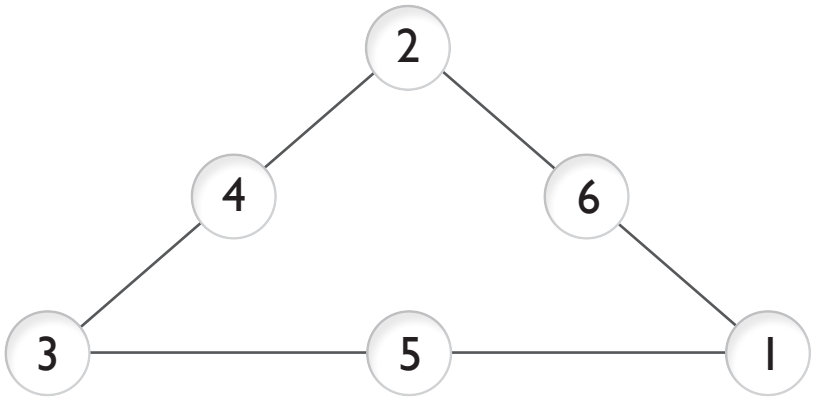
(v) 210

100 + 110
60 + 150
96 + 114
41 + 169
84 + 126

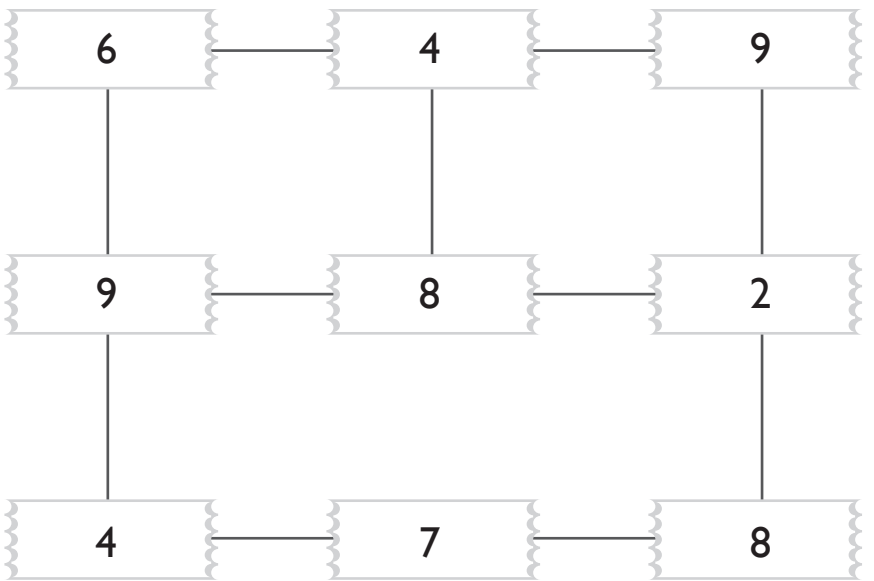
(vi) 400

250 + 150
200 + 200
197 + 203
100 + 300
36 + 364

7. (i)



(ii)



8. (i) 298 (ii) 478 (iii) 318 (iv) 939
(v) 889 (vi) 986 (vii) 968 (viii) 699
(ix) 689 (x) 866 (xi) 589 (xii) 595

9. (i) Bedsheet cost = ₹ 256
2 Pillow covers cost = 2 × 79 = ₹ 158
Total cost = ₹ 256 + ₹ 158) = ₹ 414
Therefore, Ridhima spend ₹ 414.

(ii) Number of male workers = 734
Number of female workers = 128
Total number of workers = 734 + 128 = 862.

(iii) Tickets cost = ₹ 344

Snacks cost = ₹ 185

Total cost = ₹ 344 + ₹ 185 = ₹ 529

Therefore, Johnson spend ₹ 529.

(iv) Distance travelled from Delhi to Jodhpur = 543 km

Distance travelled from Delhi to Jaipur = 320 km

Total distance travelled = 543 km + 320 km = 863 km

Therefore, total distance covered by John is 863 km.

(v) Length of cloth coloured = 249 m

Length of cloth printed = 724 m

Length of cloth coloured and printed = 249 m + 724 m = 973 m

(vi) (i) 443 (ii) 800 (iii) 612 (iv) 631

Chapter 4

Long and Short

1. Students should measure the length of object given present in their home by using there body parts.

2. Students should measure length of each object with scale and write the measurement.

3. Shortest route is Route 2 and Longest route is Route 5.
   (i) 12 cms
   (ii) 11 cm
   (iii) 11.5 cms
   (iv) 13 cms
   (v) 13 cms
   (vi) Route 2 is the shortest route between Rahini's house and temple.
   (vii) Route 5 is the longest route between Rahini's house and temple.

4. (i) 30 m (ii) 18 m (iii) 25 m (iv) Geeta

5. (ii) 8 × 100 cm = 800 cm
   (iii) 9 × 100 cm = 900 cm
   (iv) 10 × 100 cm = 1000 cm
   (v) 6 × 100 cm = 600 cm

6. (i) cm (ii) m (iii) m (iv) m (v) cm

7. (i) 160 cm (ii) 5 cm (iii) 1 km (iv) 2 m

8. Student should do measurement using scale.

Chapter

5 Shapes and Designs

1. Do yourself

2. (i) No. of triangles = 32 No. of rectangles = 18
   (ii) No. of squares = 2 No. of rectangles = 10
   (iii) No. of squares = 4 No. of triangles = 40
   (iv) No. of rectangles = 66 No. of triangles = 12

3. Colour the portion ask in question.

4. A. (i) 12 edges, 8 corners
   (ii) 0 edge, 0 corner
   (iii) 12 edges, 8 corners
   (iv) 2 edges, 0 corners
   (v) 9 edges, 6 corners
   B. Draw figures yourself.

5. (i) 8 (ii) 4 and 5 (iii) No
   (iv) 7 (v) Draw figures yourself.

6. Complete the figure by repeating the pattern.
   Shapes used in first figure **Circle and Curve lines**
   Shapes used in second figure **Square and Triangle**

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

Chapter 6

Fun with Give and Take

1. (i) 413 (ii) 114 (iii) 322
   (iv) 631 (v) 250 (vi) 128

2. (ii) 414 (iii) 209 (iv) 218
   (v) 334 (vi) 308

3. (ii)

$$\begin{array}{r} 657 \\ -\ 329 \\ \hline 328 \end{array} \qquad \begin{array}{r} 328 \\ +\ 329 \\ \hline 657 \end{array}$$

(iii)

$$\begin{array}{r} 721 \\ -\ 490 \\ \hline 231 \end{array} \rightarrow \begin{array}{r} 231 \\ +\ 490 \\ \hline 721 \end{array}$$

(iv)

$$\begin{array}{r} 373 \\ -\ 165 \\ \hline 208 \end{array} \rightarrow \begin{array}{r} 208 \\ +\ 165 \\ \hline 373 \end{array}$$

4. (i)

$$\begin{array}{r} 2\ 1\ \boxed{3} \\ -\ \boxed{1}\ \boxed{1}\ 2 \\ \hline 1\ 0\ 1 \end{array}$$

(ii)

$$\begin{array}{r} 7\ \boxed{8}\ 9 \\ -\ \boxed{5}\ 2\ \boxed{5} \\ \hline 2\ 6\ 4 \end{array}$$

(iii)

$$\begin{array}{r} 7\ 9\ \boxed{9} \\ -\ 3\ \boxed{7}\ 5 \\ \hline \boxed{4}\ 2\ 4 \end{array}$$

(iv)

$$\begin{array}{r} \boxed{5}\ \boxed{7}\ 4 \\ -\ 2\ 3\ 8 \\ \hline 3\ 3\ \boxed{6} \end{array}$$

(v)

$$\begin{array}{r} 6\ 5\ \boxed{2} \\ -\ 2\ \boxed{3}\ 4 \\ \hline \boxed{4}\ 1\ 8 \end{array}$$

(vi)

$$\begin{array}{r} \boxed{3}\ \boxed{9}\ \boxed{4} \\ -\ 1\ 6\ 5 \\ \hline \boxed{2}\ 2\ 9 \end{array}$$

5. (ii) 800, **750**, **700**, 650, **600**, 550, **500**, 450
(iii) 325, 360, **395**, 430, **465**, **500**, **535**
(iv) 915, 815, 715, **615**, **515**, 415, **315**
(v) **0**, **125**, 250, 375, **500**, 625, 750

6. (ii) 155 (iii) 850, 420 (iv) 35, 430

7. (i) Chanchal sold 97 eggs
Mohini sold 65 eggs
Total number of eggs = 97 + 65 = 172
Therefore, they together sold 172 eggs.
(ii) Number of pages read by Shammi = 125
Number of pages read by Jatin = 82
Difference of number of pages read by Shammi and Jatin
= 125 – 82 = 43 pages
Therefore, Shammi read 43 more pages than Jatin.
(iii) Number of students of class IX = 74
Number of students of class X = 99
Total number of students going for picnic = 74 + 99 = 173
(iv) (a) 99 (b) 154 (c) 105 (d) 35
(e) Science (154) (f) G.K. (99) (g) 55 Books

8. (i) False (ii) False (iii) True
(iv) False (v) False

9. (ii) 34 (iii) 25 (iv) 23
(v) 33 (vi) 32

10. (ii) 12 (iii) 13 (iv) 13

11. (i) (a) (ii) (a) (iii) (a)
(iv) (c) (v) (b) (vi) (a)

12. (i) Number of bulbs Mihir bought = 449
Number of bulbs sold = 263
Number of bulbs left with him = 449 – 263 = 186

(ii) Ticket cost = ₹ 347
Sonika gave = ₹ 500
Money return back to her = ₹ 500 – ₹ 347 = ₹ 153

(iii) Garmiahad ₹ 732
She spent ₹ 481
She save = ₹ 732 – ₹ 481 = ₹ 351

(iv) Distance between Delhi and Ahmedabad = 886 km
Distance covered by Ambica = 594 km
Distance did she require to cover more = 886 km – 594 km
= 292 km

(v) Vegetable seller bought 453 kg of onions
Rotten onion = 193 kg
Onions he could sell to the customers = 453 kg – 193 kg = 260 kg.

Chapter 7

Time Goes On

1. (a) morning (b) day (c) minutes (d) hour
   (e) year (f) week (g) afternoon (h) evening
   (i) sets (j) night

2. (a) seconds (b) minutes (c) years (d) hours
   (e) minutes (f) days

3. (a) 4 : 05 (b) 8 : 35 (c) 10 : 25 (d) 12 : 00
   (e) 11 : 50 (f) 10 : 25

5. Draw hour hand and minute hand for time given. Do yourself.

6. (i) 365 (ii) 1 (iii) seven (iv) twelve
   (v) November (vi) December (vii) August (viii) 2nd October
   (ix) 14 November (x) Seven (xi) four (xii) thirty

7. Do yourself. Students should write their own data.

8.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

(i) November 2017 starts with Wednesday.

(ii) There are 30 days in the month of November 2017.

(iii) Yes, November month of every year has 30 days.

(iv) Date on second Friday of the month is 10.

(v) 14th November is celebrated as Children's day.

(vi) 26th of this month is Sunday.

(vii) There are four Sundays in this month.

(viii) There are four Mondays in this month.

(ix) Tuesday

(x) This month end on Thursday.

Chapter 8

Who is Heavier?

1. (i) Right tick — Cross symbol
   (ii) Right tick — Cross symbol
   (iii) Cross symbol — Right tick
   (iv) Right tick — Cross symbol
   (v) Cross symbol — Right tick

2. (a) (ii) (b) (iii) (c) (iv) (d) (vi)
   (e) (v) (f) (i) (g) (viii) (h) (vii)

3. (i) kg (ii) g (iii) g (iv) g
   (v) kg (vi) kg (vii) g (viii) kg

4. (i) Less than 1 kg (ii) More than 1 kg
   (iii) Less than 1 kg (iv) More than 1 kg
   (v) Less than 1 kg (vi) Less than 1 kg

5.

Weight	Triple the weight	Half the weight
500 gm	1500 gm	250 g
3000 gm	9000 gm	1500 g
4 kg	12 kg	2 kg
12 kg	36 kg	6 kg
6000 gm	18000 g	3000 g
8 kg	24 kg	4 kg

6. (i) Water bottle
   (ii) Shoe
   (iii) Do yourself (Compare weight of your bag and your friend's bag).

Chapter 9

Where to Look From

1. (ii) No. of cars = **4**
   No. of tyres in a car = **4**
   Number of tyres altogether = **16**
   (iii) No. of baskets = **5**
   No. of mangoes in one basket = **5**
   Number of mangoes altogether = **25**
   (iv) No. of birds = **6**
   No. of a bird's wings = **2**
   Number of wings altogether = **12**
   (v) No. of pen stands = **7**
   No. of pens in each pen stand = **3**
   Number of pens altogether = **21**
   (vi) No. of sheets = **3**
   No. of circles drawn in each sheet = **9**
   Number of circles altogether = **27**
2. (ii) 8 × 6 = **8** times **6**
   6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 48
   (iii) 7 × 7 = 7 times 7
   7 + 7 + 7 + 7 + 7 + 7 + 7 = **49**
   (iv) 9 × 10 = **9** times **10**
   10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 = 90
   (v) 12 × 9 = **12** times **9**
   9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 = 108

3. (ii) 8 + 8 + 8 + 8

4 times **8** = **4** × **8** = **32**

(iii) 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6

9 times **6** = **9** × **6** = **54**

(iv) 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4

8 times **4** = **8** × **4** = **32**

(v) 10 + 10 + 10 + 10 + 10 + 10

6 times **10** = **6** × **10** = **60**

(vi) 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3

10 times **3** = **10** × **3** = **30**

(vii) 11 + 11 + 11

3 times **11** = **3** × **11** = **33**

(viii) 14 + 14 + 14 + 14

4 times **14** = **4** × **14** = **56**

4. (ii) (c) (iii) (a) (iv) (c) (v) (b)

5. (i) Number of marbles in a jar = 5

Number of marbles in 6 jars = 6 × 5 = 30.

(ii) Number of flats in one building = 7

Number of flats in 8 such buildings = 8 × 7 = 56.

(iii) Number of roses on one rose plant = 6

Number of roses on 7 such rose plant = 7 × 6 = 42.

(iv) Number of chairs in one row = 4

Number of chairs in 11 such rows = 11 × 4 = 44.

(v) Number of beads used to make one necklace = 9

Number of beads required to make 7 such necklace = 7 × 9 = 63.

(vi) Number of cars running on one track = 4

Number of cars running on 6 similar tracks= 6 × 4 = 24.

6. (ii) $7 \times 11 = 77$
$7 \times 8 = 56$
$7 \times 5 = 35$
$7 \times 10 = 70$
$7 \times 9 = 63$
$7 \times 4 = 28$
$7 \times 7 = 49$
$7 \times 6 = 42$

(iii) $6 \times 8 = 48$
$6 \times 5 = 30$
$6 \times 4 = 24$
$6 \times 11 = 66$
$6 \times 2 = 12$
$6 \times 9 = 54$
$6 \times 12 = 72$
$6 \times 13 = 78$

(iv) $9 \times 10 = 90$
$9 \times 5 = 45$
$9 \times 8 = 72$
$9 \times 2 = 18$
$9 \times 6 = 54$
$9 \times 11 = 99$
$9 \times 4 = 36$
$9 \times 9 = 81$

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

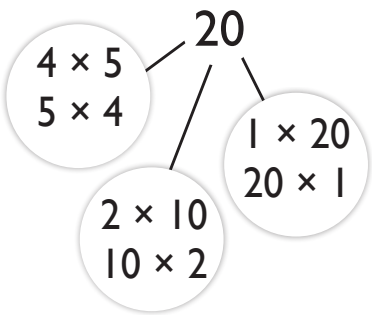
8. (i) 40 (ii) 45 (iii) 48 (iv) 45

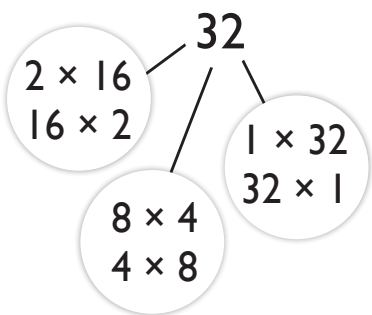
9. (i) 21 (ii) 40 (iii) 60 (iv) 42
(v) 18 (vi) 72 (vii) 81 (viii) 28
(ix) 35 (x) 54

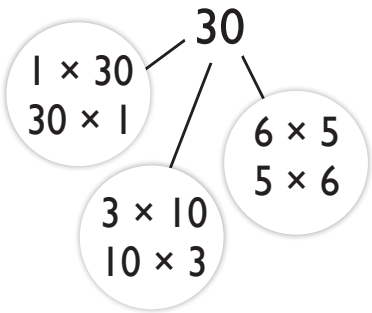
10.

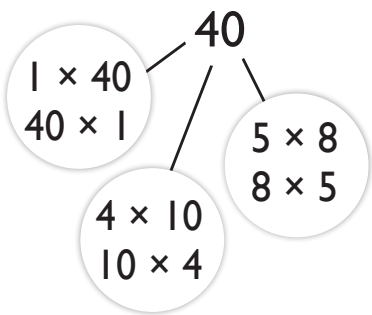
(i)	2	4	6	**8**	**10**	**12**	**14**
(ii)	7	**14**	21	28	**35**	**42**	**49**
(iii)	6	**12**	**18**	24	30	**36**	**42**
(iv)	9	18	**27**	**36**	45	54	**63**
(v)	5	**10**	15	**20**	25	30	**35**
(vi)	10	20	30	**40**	**50**	**60**	**70**
(vii)	4	**8**	12	16	**20**	**24**	**28**
(viii)	8	16	**24**	**32**	**40**	**48**	56
(ix)	11	22	33	**44**	**55**	**66**	77
(x)	3	6	**9**	**12**	**15**	**18**	**21**

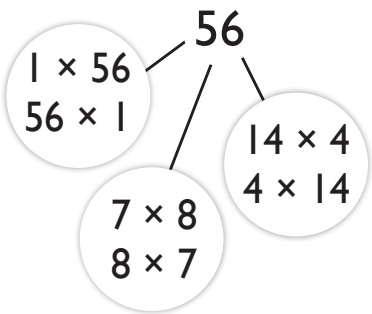
11.

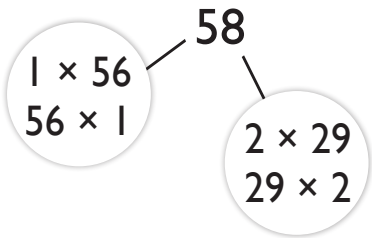












12. (i) Number of benches in a classroom = 30
Number of students sit on one benches = 2
Number of students in the classroom = 30 × 2 = 60

(ii) Number of candles in one packet = 8
Number of candles in 19 such packets = 19 × 8 = 152

(iii) Number of crayons in one box = 8
Number of crayons in 16 such boxes = 16 × 8 = 128

(iv) Number of pages in one book = 40
Total number of pages in 5 such books = 5 × 40 = 200

(v) Number of bananas in one dozen = 12
Number of bananas in 8 dozens = 8 × 12 = 96

(vi) Number of matchsticks in one matchbox = 24

Number of matchsticks in 6 such matchboxes = 6 × 24 = 144

13. (ii) 38 × 9

30 × 9 + 8 × 9

270 72

270 + 72

342

(iii) 24 × 5

20 × 5 + 4 × 5

100 20

100 + 20

120

(iv) 54 × 3

50 × 3 + 4 × 3

150 12

150 + 12

162

(v) 26 × 4

20 × 4 + 6 × 4

80 24

80 + 24

104

(vi) 29 × 7

20 × 7 + 9 × 7

140 63

140 + 63

203

14. (ii)

	30	2
10	20 × 10 = 300	10 × 2 = 20
1	30 × 1 = 30	2 × 1 = 2

Total =

300

20

30

+ 2

352

(iii)

	40	3
10	40 × 10 = 400	10 × 3 = 30
2	40 × 2 = 80	3 × 2 = 6

Total = 400 + 30 + 80 + 6 = 516

(iv)

	10	6
30	30 × 10 = 300	30 × 6 = 180
4	10 × 4 = 40	6 × 4 = 24

Total = 300 + 180 + 40 + 24 = 544

(v)

	50	4
10	50 × 10 = 500	10 × 4 = 40
4	50 × 4 = 200	4 × 4 = 16

Total = 500 + 40 + 200 + 16 = 756

(vi)

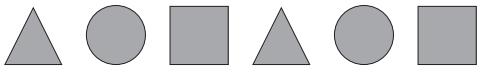
	20	8
10	20 × 10 = 200	10 × 8 = 80
8	20 × 8 = 160	8 × 8 = 64

Total = 200 + 80 + 160 + 64 = 404

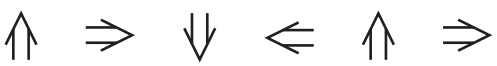
15. Do yourself

Chapter
10 Where to Look From

1. (ii) Do yourself. Student complete the figures with similar design.

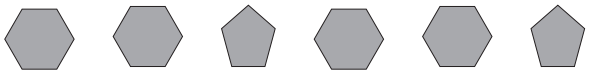
2. (i) 

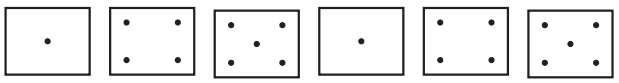
(ii) 

(iii) 

(iv) 

(v) 

(vi) 

(vii) 

3. (i) (a)  (ii) (a) 

(iii) (c)  (iv) (c) 

(v) (b)  (vi) (c) 

(vii) (a)  (viii) (b) 

4. (i) 30, 35, 40, 45, **50**, **55**, **60**, **65**

(ii) 121, 111, **101**, **91**, 81, **71**, **61**, **51**

(iii) 5, 10, 20, **40**, 80, 160, **320**, **640**

(iv) 34, **40**, **46**, 52, 58, 64, **70**, **76**

(v) 1000, 900, **800**, **700**, **600**, **500**, **400**, 300

(vi) 4, 8, 12, 16, 20, **24**, **28**, **32**, **36**

(vii) 14, 28, **42**, **56**, 70, 84, **98**, **112**

(viii) 105, 100, **95**, **90**, **85**, 80, 75, **70**

5. A. (i) odd (ii) even (iii) six (iv) eight
   (v) even (vi) even (vii) odd (viii) one
   (ix) odd (x) one

   B. 367, 369, 371, 373, 375, 377, 379, 381, 383

   C. 418, 420, 422, 424, 426, 428, 430

6. (i) ♢ ❒ ☆ ∧☆ ◖↓○☆ ☆☹ □<□◗,←↑,

   (ii) ◗↑☼ ♢◖ 😐, ○◗♢□😐←

   (iii) >↑☺□ ∨𝕍 □↑◗☹, ♢😐 ∧○□ 😐☆◗😐♢😐❒

Chapter
11 Jugs and Mugs

1. Paste pictures of three animal. Do yourself.
2. (i) More than 1 litre of liquid
   (ii) Less than 1 litre of liquid
   (iii) More than 1 litre of liquid
   (iv) More than 1 litre of liquid
   (v) More than 1 litre of liquid
   (vi) More than 1 litre of liquid
3. (i) × (ii) ✓ (iii) × (iv) ✓
   (v) ✓ (vi) ✓
4. (i) (c) (ii) (a) (iii) (d) (iv) (b)
5. (i) millilitre (ii) litre (iii) litre (iv) litre
   (v) millilitre (vi) millilitre (vii) milliliter
6. Do yourself.
7. (i) 12 glasses of water are required to fill 3 jugs.
   (ii) 5 jugs will be filled by 20 glasses of water.
   (iii) 2 glasses of water are required to fill half of the jug.
   (iv) No
8. (i) Number of mugs required to fill a jar = 16
   Number of mugs required to fill 5 such jars = 5 × 16 = 80.
   (ii) Number of glasses required to fill a mug = 2
   Number of mugs required to fill a jar = 3
   Number of glasses required to fill the jar = 2 × 3 = 6.
   (iii) Jar A < Jar C < Jar B

(iv) Jar A hold 16 cups of water.

Jar B hold thrice as much water as Jar A.

Then Jar B holds (2 × 16) = 32 cups of water.

Chapter 12

Can We Share?

1. (i) (a) 15 (b) 3 (c) 5
   (ii) (a) 36 (b) 6 (c) 6
   (iii) (a) 16 (b) 4 (c) 4
   (iv) (a) 12 (b) 3 (c) 4
2. (ii) $18 \div 6 = 3$ (iii) $14 \div 2 = 7$ (iv) $12 \div 4 = 3$
3. (i) There are 3 trays for 63 eggs.
   Number of eggs in each tray = $63 \div 3 = 21$
   (ii) Number of eggs in one tray = 9
   Number of trays for 63 eggs = $63 \div 9 = 7$
   (iii) One tray contain 5 eggs.
   Total 60 egg will be placed in 12 trays.
   Remaining eggs = $63 - 60 = 3$.
4. (i) Number of bottles in one tray = 9
   Total number of bottles = 45
   Number of trays will be required to keep all the 45 bottles of coke
   $= 45 \div 9 = 5$
   (ii) Number of bottles in one tray = 8
   Total number of bottles = 48
   Number of trays will be required to keep all the 48 bottles of coke
   $= 48 \div 8 = 6$
5. (ii) ` 27 are equally shared among 3 sisters
   Each will get $27 \div 3 =$ ` 9

(iii) 40 pencils are equally shared among 8 students
Each student will get 40 ÷ 8 = 5 pencils

(iv) 56 sweets were equally shared among 7 cousins
Each will get 56 ÷ 7 = 8 sweets

6. (i) Number of bottles in one tray = 8
Total number of bottles = 48
Number of bottles in each tray = 48 ÷ 8 = 6

(ii) There were 63 sweaters sold equally in 7 days.
Number of sweaters sold each day 63 ÷ 7 = 9

(iii) There are 80 people living in the building having 10 flats.
Number of people live in each flat = 80 ÷ 10 = 8

(iv) 56 pens were distributed equally among 14 students.
Number of pens each student will get = 56 ÷ 14 = 4

7. (ii) 56 ÷ 8 = **7**
Multiplication fact = **8** × **7** = **56**

(iii) 18 ÷ 2 = **9**
Multiplication fact = **2** × **9** = **18**

(iv) 35 ÷ 7 = **5**
Multiplication fact = **7** × **5** = **35**

(v) 15 ÷ 3 = **5**
Multiplication fact = **3** × **5** = **15**

8. (i) **45** ÷ 9 = 5
(ii) **36** ÷ 4 = 9
(iii) 49 ÷ 7 = **7**
(iv) **40** ÷ 8 = 5
(v) 36 ÷ 12 = **3**
(vi) 36 ÷ 6 = **6**
(vii) **30** ÷ 15 = 2
(viii) **24** ÷ 3 = 8
(ix) 54 ÷ 6 = **9**
(x) **64** ÷ 8 = 8
(xi) 40 ÷ 4 = **10**
(xii) **20** ÷ 2 = 10
(xiii) 18 ÷ **18** = 1
(xiv) 0 ÷ 5 = **0**
(xv) **100** ÷ 10 = 10
(xvi) 18 ÷ 0 = **Not defined**
(xvii) 14 ÷ **1** = 14
(xviii) 70 ÷ **7** = 10

(xix) **0** ÷ 7 = 0 (xx) 16 ÷ **2** = 8

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

10. (i) (b) (ii) (a) (iii) (b) (iv) (b)
(v) (b)

11. (ii) a = 36, b = 30, c = 10, d = 15
(iii) a = 20, b = 10, c = 30, d = 45
(iv) a = 26, b = 36, c = 6, d = 31
(v) a = 35, b = 7, c = 18, d = 6
(vi) a = 32, b = 4, c = 36, d = 23
(vii) a = 7, b = 17, c = 10, d = 40
(viii) a = 40, b = 4, c = 30, d = 20
(ix) a = 40, b = 30, c = 10, d = 70
(x) a = 45, b = 26, c = 6.5, d = 32.5

12. (i) 27 chocolates were equally distributed among 3 friends.
Number of chocolates each will get = 27 ÷ 3 = 9
(ii) Number of buttons on each shirt = 8
Total number of buttons = 72
Number of shirts stitched by the tailor = 72 ÷ 8 = 9
(iii) The cook takes 5 minutes to make one omelette.
If he has 40 minutes
Then within this time he can make 40 ÷ 5 = 8 omelettes
(iv) The distance between Delhi and Faridabad is 48 km.
In 1 hour Radha travels 6 km
Time taken to cover 48 km = 48 ÷ 6 = 8 hours
(v) Cost of a balloon is Rs. 7.
Number of balloons can be bought in Rs. 70 = 70 ÷ 7 = 10

Chapter
13 Smart Charts

1. A. (i) 5 (ii) 7 (iii) 4 (iv) 0
(v) 8 (vi) 7
B. (i) True (ii) False (iii) False (iv) True
(v) False

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

3. (i) 15 (ii) Monday (iii) 5 (iv) Friday
(v) 10

4. (i) 85 (ii) Dahi vade (iii) Idli (iv) Rs. 72
(v) Idli < Vada < Dosa < Chowmein < Dahi Vade

5. (i) Painting (ii) 6 (iii) Study (iv) 2
(v) Do yourself. Write your favourite activity.

Chapter
14 Rupees and Paise

1. (i) ` 273 (ii) ` 150 (iii) ` 603.75 (iv) ` 320.50
   (v) ` 529.75
2. (i) ` 120 (ii) ` 165.50 (iii) ` 195 (iv) ` 670.25
   (v) ` 365 (vi) ` 266 (vii) ` 709 (viii) ` 173.25
   (ix) ` 450 (ix) ` 96.50
3. A. (i) ` 55.25 + ` 97.50 = ` 192.75
   (ii) ` 55.25 + ` 21.75 = ` 77
   (iii) ` 86.99 + ` 97.50 = ` 184.49
   (iv) ` 55.25 + ` 20.10 = ` 75.55
   (v) ` 86.99 + ` 21.75 + ` 40.20 = ` 148.94

   B. (i) A shirt, A pair of socks and a Handkerchief
   (ii) A shirt, A pair of socks
   (iii) A pair of socks and a Handkerchief
   (iv) A shirt, a Handkerchief
4. (ii) ` 9 = 9 × 100 = 900 paise
   (iii) ` 15 = 15 × 100 = 1500 paise
   (iv) ` 12 = 12 × 100 = 1200 paise
   (v) ` 4 = 4 × 100 = 400 paise
   (vi) ` 14 = 14 × 100 = 1400 paise
5. (ii) 700 paise = 700 ÷ 100 = ` 2
   (iii) 1000 paise = 1000 ÷ 100 = ` 10
   (iv) 1200 paise = 1200 ÷ 100 = ` 12
   (v) 1300 paise = 1300 ÷ 100 = ` 13

(vi) 1100 paise = 1100 ÷ 100 = ` 11

6. (i) ` 29.50 (ii) ` 68.75 (iii) ` 101.60 (iv) ` 110.25
   (v) ` 68 (vi) ` 121.90
7. (i) ` 16 (ii) ` 24.25 (iii) ` 58.25 (iv) ` 20.50
   (v) ` 39.75 (vi) ` 4.25
8. (i) ` 59.15 (ii) ` 15.50 (iii) ` 103.80 (iv) ` 22.95
9. (i) ` 22 (ii) ` 25 (iii) ` 27 (iv) ` 30
   (v) ` 30 (vi) ` 37
10. (i) Cost of a chair = ` 42.20
    Cost of a table = ` 127.90
    Total cost = ` 42.20 + ` 127.90 = ` 170.10

    (ii) Monica's mother gave her ` 100 note
    A dozen of bananas cost = ` 47.75
    She return back to her mother = ` 100 – ` 47.75 = ` 52.25

    (iii) (a) Cost of Burger = ` 64.25
    Cost of Pizza = ` 90.75
    Total cost = ` 64.25 + ` 90.75 = ` 155

    (b) Cost of Pizza = ` 90.75
    Cost of Pasta = ` 87.50
    Total cost = ` 90.75 + ` 87.50 = ` 178.25

    (c) Cost of Burger = ` 64.25
    Cost of Pizza = ` 90.75
    Cost of Pasta = ` 87.50
    Total cost = ` 64.25 + ` 90.75 + ` 87.50 = ` 242.50

    (d) Cost of Burger = ` 64.25
    Cost of Pasta = ` 87.50
    Total cost = ` 64.25 + ` 87.50 = ` 151.75

Money, the shopkeeper return to Geeta

= ` 200 – ` 151.75 = ` 48.25

11. (i) (a) 409 km – 329.9 km = 79.1 km

(b) 611 km – 329.9 km = 281.1 km

(c) 611 km – 409 km = 202 km

(ii) (a) 3 × ` 561.50 = ` 1684.50

(b) 3 × ` 329.9 = ` 989.7

(c) 3 × ` 409 = ` 1227

(iii) Fare of per seat from Mumbai to Kochi = ` 611

Fare for 2 seats = 2 × ` 611 = ` 1222