



Mathematics

Textbook

Answer Key

CLASS

5

Published & Printed by :

Student Advisor Publications Pvt. Ltd.

E-38, Industrial Area, Mathura-281004

☎ Off. 7251835835, 7251836836

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Math - 5

Chapter-1. The Fish Tale

Time to Perform

1. Do yourself.

2.

S.No.	Number	Period	Place value	Face value
1.	65 <u>8</u> 4293	Ten thousands	80000	8
2.	5694 <u>3</u> 298	Thousands	3000	3
3.	246 <u>6</u> 36	Hundreds	600	6
4.	<u>4</u> 799466	Lakhs	700000	7
5.	8945 <u>2</u> 0	Tens	20	2

3. (a) Place value of 9 in 56498 is 90.
 (b) Face value of underlined digit in 310046 is 1.
 (c) 6 is in the Ten thousands place in 567854.
 (d) Place value of 5 in 231548 is 500.
 (e) In 1023465, the face value of underlined digit is 2 and place value is 20000.
 (f) A log boat will go 4 km in one hour. The speed of the log boat is 4 km/hr.
 (g) A motor boat covers a distance of 20 km in two hours. The speed of the motor boat is 10 km/hr.
4. (a) Ten thousand – 10,000
 (b) One lakh – 1,00,000
 (c) Hundred lakh – 100,00,000
 (d) Two million twenty thousand one hundred six – 2,020,106
 (e) One lakh thirty thousand three hundred – 1,30,300
 (f) Ninety millions one hundred twenty six thousand two hundred six – 90,126,205
5. (a) 458316 = Four lakh fifty eight thousand three hundred sixteen
 Four hundred fifty eight thousand three hundred sixteen.
 (b) 2793623 = Twenty seven lakh ninety three thousand six hundred twenty three.
- Two millions seven hundred ninety three thousand six hundred twenty three
- (c) 10002469 = One crore two thousand four hundred sixty nine.
 One million two thousand four hundred sixty nine.
6. (a) $23564 = 2 \times 10000 + 3 \times 1000 + 5 \times 100 + 6 \times 10 + 4$
 (b) $600124 = 6 \times 100000 + 1 \times 100 + 2 \times 10 + 4$
 (c) $901358 = 9 \times 100000 + 1 \times 1000 + 3 \times 100 + 5 \times 10 + 8$
7. (a) $30000 + 2000 + 400 + 00 + 6 = 32406$
 (b) $8000000 + 600000 + 00000 + 1000 + 300 + 40 + 9 = 86,01,349$
8. 23468 → S : 23469, P : 23467
 210469 → S : 210470, P : 210468
 10948 → S : 10949, P : 10947
 6001348 → S : 6001349, P : 6001347
 136500 → S : 136501, P : 136499
9. (a)
$$\begin{array}{r} 75154 \\ + 35148 \\ \hline 110302 \end{array}$$
 Estimated sum = 110300
 (b)
$$\begin{array}{r} 68749 \\ + 12061 \\ \hline 80810 \end{array}$$
 Estimated sum = 80800

2 Answer Key : Maths – 5

10. (i) 3684, 24586, 42158, 68948
68948, 42158, 24586, 3684
(ii) 24610, 346846, 457912, 986425
986425, 457912, 346846, 24610
11. Loan taken from bank = ₹ 8,000
Paid every month = ₹ 750
Time for paying = 1 Year = 12 Month
Total money paid = ₹ 750 × 12 = ₹ 9000
Thus, total ₹ 9000 he pays back to the bank.

NCERT Corner

1. Weight of the kingfish = 8 kg
Total cost of the kingfish = Rs 1200
Weight of 1 kg fish = $1200 \div 8 = 150$
Fazila sells the kingfish at Rs 150 per kg.
2. Weight of prawns sold by Floramma = 10 kg
Cost of 1 kg prawns = Rs 150
Price of 10 kg prawns = $Rs\ 150 \times 10 = Rs\ 1500$
Floramma got Rs 1500 by selling 10 kg prawns.
3. Weight of swordfish sold by Gracy = 6 kg
Cost of 1 kg swordfish = Rs 60
Total money Gracy earned by selling 6 kg of swordfish = $Rs\ 60 \times 6 = Rs\ 360$
Mini earned Rs 360 by selling sardines.
Cost of 1 kg sardines = Rs 40
Weight of sardines sold by Mini = $360 \div 40 = 9\ kg$
Mini sold 9 kg sardines and earned Rs 360.
4. Total money with Basheer = Rs 100
One-fourth of the money = $Rs\ 100 \div 4 = Rs\ 25$
Remaining three-fourth of the money = $Rs\ 100 - Rs\ 25 = Rs\ 75$
(a) He bought squid for Rs 25.
Cost of 1 kg squid = Rs 50
Now, cost of $\frac{1}{2}$ kg squid = $Rs\ 50 \div 2 = Rs\ 25$

12. Distance between Delhi and Bhopal = 700 km
Time of departing = 2 : 30 Pm
Speed of bus = 100 km/hr
Total time to cover 700 km = 7 hours
 $\left(\because \frac{100 \times 7}{7} \right)$
Time of arrival = 2 : 30 Pm + 7 hours
= 9 : 30 pm

- Basheer can buy $\frac{1}{2}$ kg squid with Rs. 25.
- (b) He bought prawns for Rs 75. Cost of 1 kg prawns = Rs 150
Cost of $\frac{1}{2}$ kg prawns = $Rs\ 150 \div 2 = Rs\ 75$
Basheer can buy $\frac{1}{2}$ kg prawns with Rs. 75.

Women's Meenkar Bank

- Number of fisherwomen who join the bank = 20
Money saved by each of them every month = Rs 25
Total money collected in a month = $Rs\ 25 \times 20 = Rs\ 500$
Thus, 20 women save Rs 500 every month.
- Now, 1 year = 12 months
10 years = 12 months × 10 = 120 months
Total money saved in 10 years = $Rs\ 500 \times 120 = Rs\ 60,000$
Rs 60,000 will be collected in 10 years.

Practice Time

1. (a) Amount of loan taken by Gracy = Rs 4000

Amount of payment every month
= Rs 345

We know, 1 year = 12 months
Total amount paid back to the bank
in 1 year = Rs 345 × 12 = Rs 4,140
So, Gracy paid Rs 4,140 to bank in
1 year.

(b) 1 year = 12 months

Total amount paid back by Jhansi
and her sister in 1 year = Rs 23,520

Amount they paid every month =
Rs 23520 ÷ 12 = Rs 1,960

They paid back Rs 1,960 every
month.



Chapter-2. Shapes and Angles

Time to Perform

1. (a) (b) (i) (j)
- (c) (d) (k) (l)
- (e) (f) (m) (n)
- (g) (h) (o)

2. Do yourself.

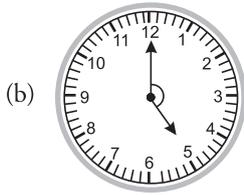
3.

	(a)	(b)	(c)	(d)	(e)	(f)
Shape						
No. of Match sticks	4	3	6	6	8	5
Type of Angle	Right angle	Acute	Right angle	Obtuse	Obtuse	Obtuse

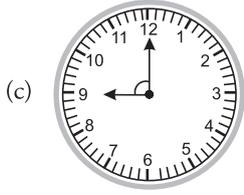
4. (a) 40° → Acute
 (b) 90° → Right angle
 (c) 125° → obtuse
 (d) 64° → Acute
 (e) 180° → Straight
 (f) 82° → Acute
 (g) 146° → Obtuse
 (h) 150° → Obtuse

5. (a)
 Acute

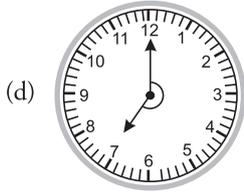
4 Answer Key : Maths – 5



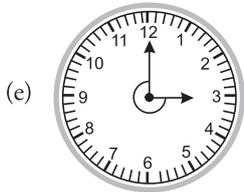
Obtuse



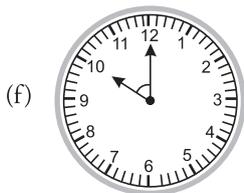
Right



Reflex



Reflex



Acute

6. (a) Acute angle



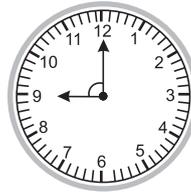
10:00 O'Clock

(b) Obtuse angle



10:15 O'Clock

(c) Right angle

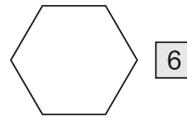


9:00 O'Clock

7. (a)



(b)



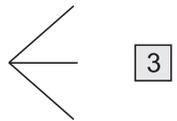
(c)



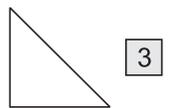
(d)



(e)



(f)



8. Do Yourself

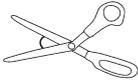
NCERT Corner

Practice Time–1

1. All the angles in the figure are equal.
2. (a) The angles marked with yellow are equal.
- (b) The angles marked with green are equal.
- (c) The angles marked with blue are equal.
3. Do Yourself
4. Do Yourself

Practice Time–2

1. Look at the angles in the pictures and fill the table.

Angle	Right angle	More than a right angle	Less than a right angle
			✓
	✓		
	✓		
		✓	
		✓	

2. **Disclaimer :** The purpose of this section is to make students observe their surroundings. It is highly recommended that the students prepare the answers on their own. ● ●

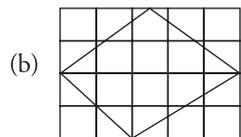
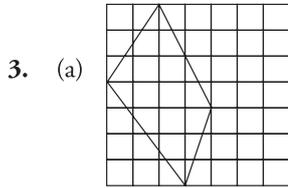
Chapter–3. How Many Squares ?

Time to Perform

1. (a) Perimeter = 3 cm + 1 cm + 1 cm + 4 cm + 1 cm + 1 cm + 3 cm + 1 cm + 4 cm + 1 cm + 1 cm + 1 cm = 22 cm
- (b) Perimeter = 3 cm + 5 cm + 7 cm + 5 cm + 1 cm + 4 cm + 3 cm + 4 cm = 32 cm
2. (a) Area = $10 + 8 \times \frac{1}{2} = 10 + 4 = 14 \text{ cm}^2$
- (b) Area = $3 + 3 \times \frac{1}{2} = 3 + 1.5 = 4.5 \text{ cm}^2$
- (c) Area = $10 + 8 \times \frac{1}{2} = 10 + 4 = 14 \text{ cm}^2$

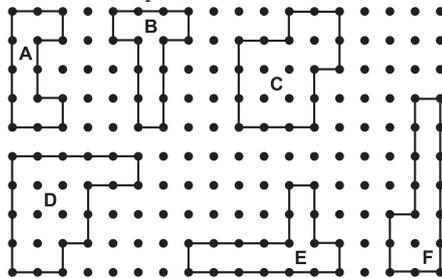
6 Answer Key : Maths – 5

(d) $\text{Area} = 4 + 4 \times \frac{1}{2} = 4 + 2 = 6 \text{ cm}^2$



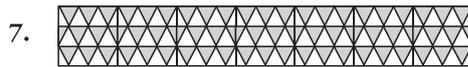
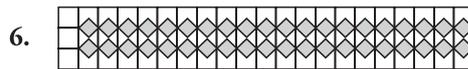
4. Do yourself.

5. Given shapes



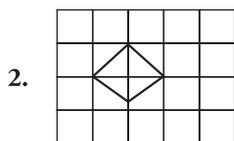
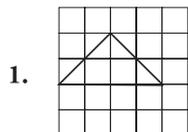
Shape	Perimeter	Area
A	14 unit	6 unit ²
B	14 unit	6 unit ²
C	16 unit	12 unit ²
D	18 unit	13 unit ²
E	18 unit	8 unit ²
F	16 unit	8 unit ²

- (a) Minimum perimeter → Shape A and B
- (b) Maximum perimeter → Shape D and E
- (c) Minimum area → Shape A and B
- (d) Maximum area → Shape D



NCERT Corner

Practice Time-1

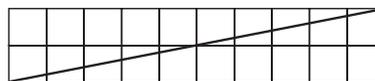


The given figure comprises of 2 half-filled squares and 2 squares that are less than half-filled. Thus, we will ignore the squares that are less than half filled.

So, area of the given figure = 1 square cm

Therefore, it clearly proves that the area of the figure i.e. 1 square cm is less than 2 square cm.

3. (a) The given rectangle is divided into two equal triangles by drawing a line as shown below.



Area of rectangle = 20 square cm
Area of each triangle = 1/2 of area of rectangle

= $(20 \div 2)$ square cm = 10 square cm

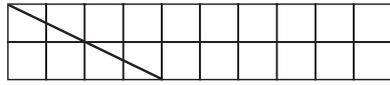
- (b) The given rectangle is divided into two equal rectangles by drawing a line as shown below.



Area of rectangle = 20 square cm

Thus, area of each small rectangle = 1/2 of area of rectangle = $(20 \div 2)$ square cm = 10 square cm

- (c) The given rectangle is divided into one rectangle and two equal triangles by drawing 2 lines as shown below.



We will consider a square as complete if it is more than half-filled, and will ignore a square if it is less than half-filled.

Thus, in the red shaded region, we have 2 completely filled squares and 2 squares that are more than half-filled. Thus, the area of red triangle = 4 square cm

Similarly, the area of green triangle = 4 square cm Now, the area of remaining portion i.e. the rectangle contains 12 completely filled squares.

- Thus, the area of rectangle = 12 square cm.
- Area of each of the triangle is 4 square cm.

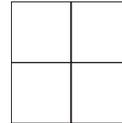
Disclaimer : The answer to part (c) of the question may vary from student to

student. The answer provided here is for reference only.

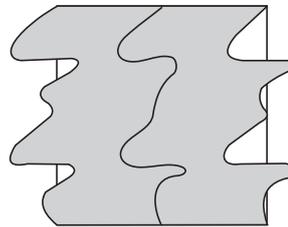
Practice Time–2

The shapes C and D will tile a floor without leaving any gaps. Area of each shape = $2 \times 2 = 4$ square cm.

Design with shape C



Design with shape D



Disclaimer : The answer may vary from student to student. It is highly recommended that the students prepare the answer on their own.



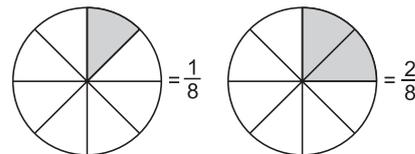
Chapter –4. Parts and Wholes

Time to Perform

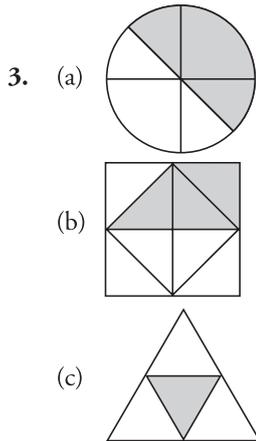
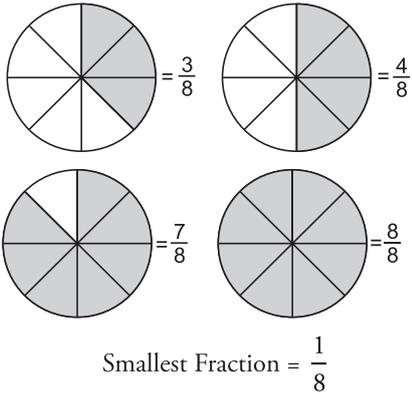
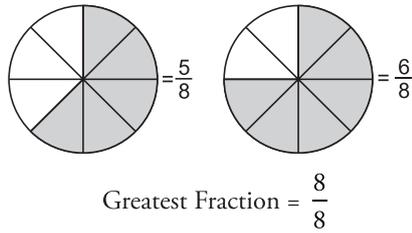
1. (a) Rama took 3 tablets on the first day of her fever. Part of the tablets die she take = $\frac{3}{10}$. Part of the tablets is left = $\frac{7}{10}$.
- (b) She took 2 more tablets on the next day. Now, part of the tablets is left = $\frac{5}{10}$ or $\frac{1}{2}$
- (c) She took one more on the third day. Now part of the tablets is left = $\frac{4}{10}$

or $\frac{2}{5}$

- (d) Part of the tablets in the strip is more – the one that is remaining or the part that was taken till now = **one that was taken till now.**



8 Answer Key : Maths – 5



4. (a) $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{2 \times 3}{3 \times 3} = \frac{2 \times 4}{3 \times 4} = \frac{2 \times 5}{3 \times 5}$
 $\Rightarrow \frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$

(b) $\frac{5}{7} = \frac{5 \times 2}{7 \times 2} = \frac{5 \times 3}{7 \times 3} = \frac{5 \times 4}{7 \times 4} = \frac{5 \times 5}{7 \times 5}$
 $\Rightarrow \frac{5}{7} = \frac{10}{14} = \frac{15}{21} = \frac{20}{28} = \frac{25}{35}$

5. (a) False : $\frac{2}{5} \times 30 = 12 \neq 15$

(b) True : $\frac{3}{7} \times 28 = 12 = 12$

(c) False : $\frac{4}{8} \times 64 = 32 \neq 34$

(d) True : $\frac{2}{12} \times 6 = 1 = 1$

(e) True : $\frac{3}{15} \times 20 = 4 = 4$

(f) True : $\frac{1}{5} \times 35 = 7 = 7$

6. (a) $\frac{1}{2}, \frac{2}{6}, \frac{2}{4}, \frac{1}{6}, \frac{3}{6}$
 $\Rightarrow \frac{1}{2}, \frac{1 \times 2}{2 \times 2}, \frac{1 \times 3}{2 \times 3} \Rightarrow \frac{1}{2}, \frac{2}{4}, \frac{3}{6}$
 are equivalent.

(b) $\frac{4}{5}, \frac{8}{10}, \frac{8}{15}, \frac{12}{15}, \frac{16}{25}$
 $\Rightarrow \frac{4}{5}, \frac{4 \times 2}{5 \times 2}, \frac{4 \times 3}{5 \times 3} \Rightarrow \frac{4}{5}, \frac{8}{10}, \frac{12}{15}$
 are equivalent.

(c) $\frac{3}{8}, \frac{6}{16}, \frac{12}{32}, \frac{15}{24}, \frac{21}{56}$
 $\Rightarrow \frac{3}{8}, \frac{3 \times 2}{8 \times 2}, \frac{3 \times 3}{8 \times 3} \Rightarrow \frac{3}{8}, \frac{6}{16}, \frac{9}{24}$
 are equivalent.

7. (a) $\frac{4}{7} \stackrel{?}{=} \frac{12}{21} \Rightarrow \frac{4 \times 3}{7 \times 3} \stackrel{?}{=} \frac{12}{21}$
 $\Rightarrow \frac{12}{21} \stackrel{?}{=} \frac{12}{21}$

Thus, both are equivalent.

(b) $\frac{3}{5} \stackrel{?}{=} \frac{15}{30} \Rightarrow \frac{3 \times 6}{5 \times 6} \stackrel{?}{=} \frac{15}{30}$
 $\Rightarrow \frac{18}{30} \stackrel{?}{=} \frac{15}{30}$

Thus, both are not equivalent.

(c) $\frac{2}{3} \stackrel{?}{=} \frac{2}{6} \Rightarrow \frac{2 \times 2}{3 \times 2} \stackrel{?}{=} \frac{2}{6} \Rightarrow \frac{4}{6} \stackrel{?}{=} \frac{2}{6}$

Thus, both are not equivalent.

8. (a) $\frac{6}{12} \leq \frac{10}{12}$ (b) $\frac{1}{4} \geq \frac{1}{16}$

(c) $\frac{5}{8} < \frac{5}{4}$ (d) $\frac{8}{9} > \frac{2}{9}$
 (e) $\frac{3}{5} > \frac{3}{18}$ (f) $\frac{12}{15} > \frac{8}{15}$

9. (a) $\frac{1}{2}$ of ₹ 1 = $\frac{1}{2} \times 1 = ₹ 0.5$
 (b) $\frac{3}{4}$ of ₹ 200 = $\frac{3}{4} \times 200 = ₹ 150$
 (c) $\frac{1}{4}$ of 1500 g = $\frac{1}{4} \times 1500 = 375$ g

10. (a) If 1 hour = 60 minutes, then
 (i) $\frac{1}{2}$ of an hour
 $= \frac{1}{2} \times 60 = 30$ minutes
 (ii) $\frac{3}{10}$ of an hour
 $= \frac{3}{10} \times 60 = 18$ minutes

(b) If 1 dozen = 12, then
 (i) $\frac{2}{3}$ of a dozen = $\frac{2}{3} \times 12 = 8$
 (ii) $\frac{4}{6}$ of a dozen = $\frac{4}{6} \times 12 = 8$
 (c) If 1 kg = 1000 g, then
 (i) $\frac{1}{4}$ of a kg = $\frac{1}{4} \times 1000 = 250$ g
 (ii) $\frac{5}{10}$ of a kg = $\frac{5}{10} \times 1000 = 500$ g

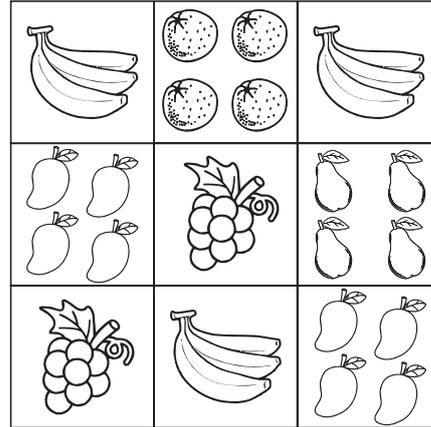
(d) If 1 litre = 1000 mL, then
 (i) $\frac{4}{5}$ of a litre
 $= \frac{4}{5} \times 1000 = 800$ mL
 (ii) $\frac{2}{10}$ of 500 mL
 $= \frac{2}{10} \times 500 = 100$ mL

11. (a) Total part of field in which oranges are grown = $\frac{1}{9}$ part of total field

(b) Area of field in which mangoes are grown = $\frac{2}{9}$ part of total field

(c) Bananas occupies the biggest part, that is $\frac{3}{9}$ or $\frac{1}{3}$ of total field.

(d) Mangoes and grapes.



12. Total weight of potatoes = 12 kg
 Big potatoes = $\frac{2}{3}$ of 12 kg
 $= \frac{2}{3} \times 12 = 2 \times 4 = 8$ kg

∴ 8 kg potatoes were big.

13. Let distance between home to school = x km
 Distance covered by cycle = $\frac{7}{10} \times x$
 $= \frac{7x}{10}$ km

Distance covered by walking = $x - \frac{7x}{10}$
 $= \frac{10x - 7x}{10} = \frac{3x}{10}$ km

14. Total weight of earnings = 32 gm
 Weight of silver = $\frac{7}{8} \times 32$
 $= 7 \times 4 = 28$ gm
 ∴ 28 gm silver is mixed in the earnings.

NCERT Corner

Practice Time–1

(A) Total number of pieces in the chocolate bar = 12

Manju gives one-fourth of the chocolate to Raji. Number of pieces of chocolate given to Raji = $12 \div 4 = 3$

Thus, Raji got 3 pieces of chocolate. Now, Manju gives one-third of the chocolate to Sugatha. Number of pieces of chocolate given to Sugatha = $12 \div 3 = 4$

Thus, Sugatha got 4 pieces of chocolate. Now, Manju gives one-sixth of the chocolate to Sheela. Number of pieces of chocolate given to Sheela = $12 \div 6 = 2$

Thus, Sheela got 2 pieces of chocolate. Total number of pieces of chocolate given to Raji, Sugatha and Sheela = $3 + 4 + 2 = 9$

Total number of pieces of chocolate left in the bar = $12 - 9 = 3$

As Manju ate the remaining part of the chocolate, she will get 3 pieces of chocolate.

Part of the chocolate eaten by Manju = $\frac{1}{4}$

(B) Since one triangle is divided into three equal parts, therefore, each part is one-third $\left(\frac{1}{3}\right)$ of the whole triangle. Let

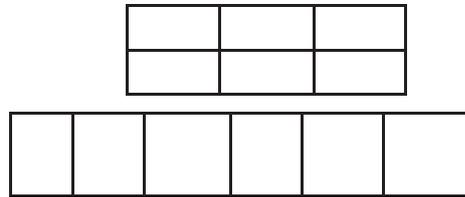
us $\frac{1}{3}$ in each part and colour them in

a different colour as shown in the above figure.

In order to show that these parts are equal. Let us name them, T_1 , T_2 and T_3 . Trace any of them, say T_1 . Now place traced part over T_2 and T_3 . We find that T_1 covers T_2 and T_3 are of the same shape and size.

Hence, these triangles are equal.

(C) These rectangles can be divided into six equal parts as follows :



Practice Time–2

1. Distance travelled by Raheem to reach school from home = $1\frac{1}{4}$ km

Distance travelled by Raheem to return home from school = $1\frac{1}{4}$ km

Total distance travelled by Raheem = $1\frac{1}{4} + 1\frac{1}{4} = 1 + 1 + \frac{1}{4} + \frac{1}{4} = 2 + \frac{2}{4} = 2 + \frac{1}{2} = 2\frac{1}{2}$ km. Thus, the total distance travelled by Raheem to go and return from school is $2\frac{1}{2}$ km.

2. Cost of a pen and a pencil = Rs $7\frac{1}{2}$

Total money given to the shopkeeper = Rs 10

Total money returned to Latha by the shopkeeper

$$= \text{Rs } 10 - \text{Rs } 7\frac{1}{2}$$

$$= 10 - 7 - \frac{1}{2} = 3 - \frac{1}{2} = \text{Rs. } 2\frac{1}{2}$$

We know that, 1 quarter rupee = 25 paise
1 half rupee = 50 paise

Now, the shopkeeper can return Rs $2\frac{1}{2}$ in the

following ways :

- (a) 1 half rupee coin and 8 quarter rupee coins
- (b) 4 half rupee coins and 2 quarter rupee coins

- (c) 2 half rupee coins and 6 quarter rupee coins
- (d) 3 half rupee coins and 4 quarter rupee coins
3. (a) The correct time for the arrival of the train is quarter to 7 = 6 : 34 hrs
But, the train is late by half an hour.
So, expected time of the arrival of the train
The right time is a quarter to 7 i.e. 6 : 45
But, train is delayed by half an hour i.e. 30 minutes.
So, exact time train will arrive at 6 : 45 + 0 : 30 = 7 : 14
Thus, the expected time of the arrival of the train is quarter past 7.
- (b) Expected time of the arrival of the train = 7 : 14 hrs.
Nazia gets off at a station after $2\frac{1}{2}$ hrs. of boarding the train.

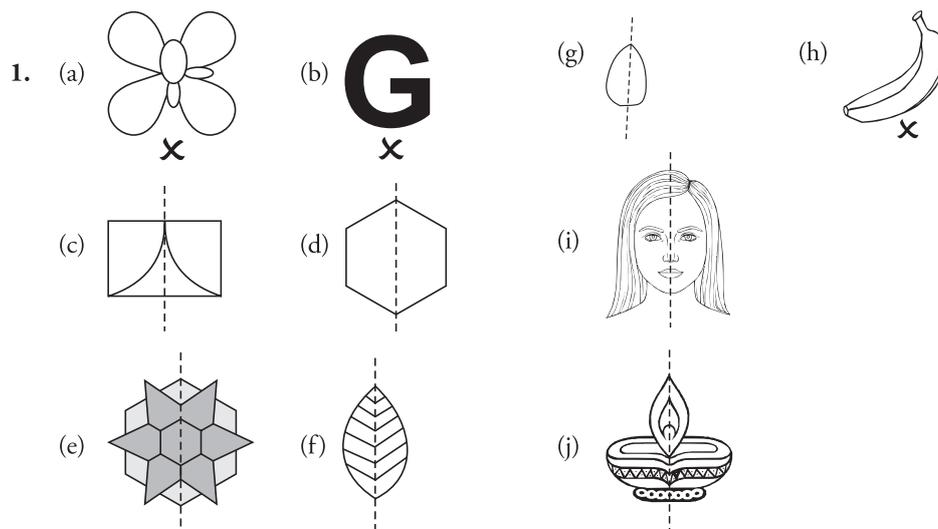
Answer Key : Maths – 5 11

- Time at which Nazia will get off =
From the question,
Nazia gets off at a station after = 2 : 30 hours
Then, total time taken by Nazia to reach = 2 : 30 + 7 : 15 = 9 : 45
Thus, Nazia will get off from the train at quarter to 10.
- (c) Shaji will reach Emakulam by this train after 5 hours.
Expected time of the arrival of the train = 7 : 14 hrs
Expected time at which Shaji will reach Ernakulam =
From the question, it is given that, Shaji will take 5 hours to reach Ernakulam
Then, total time taken by Shaji to reach Emakulam = 7 : 15 + 5 = 12 : 15
Thus, Shaji will reach Ernakulam at quarter past 12.

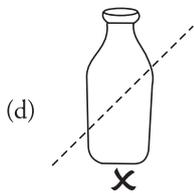
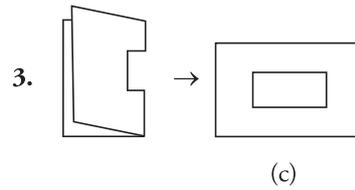
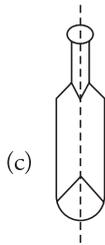
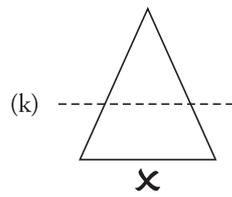
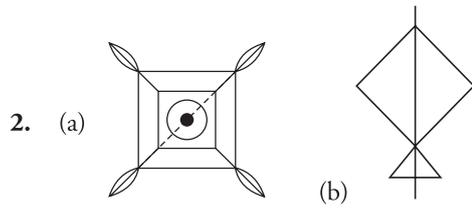


Chapter-5. Does it Look the Same ?

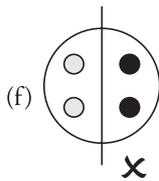
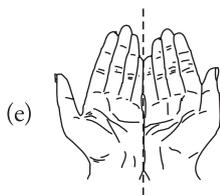
Time to Perform



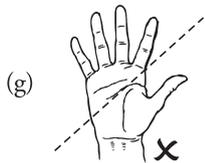
12 Answer Key : Maths – 5



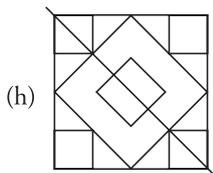
4. (a) 95, 90, 85, 80, 75, 70, 65, 60
 (b) 1, 4, 9, 16, 25, 36, 49
 (c) 6, 12, 24, 48, 96, 192, 384
 (d) 98, 87, 76, 65, 54, 43, 32



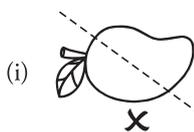
5. (a) (i) $\frac{1}{4}$ (ii) $\frac{1}{2}$
 (b) (i) $\frac{1}{2}$ (ii) $\frac{1}{4}$



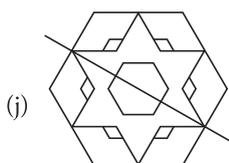
6. (a) (b)



- (c) (d)



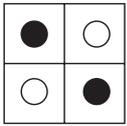
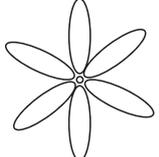
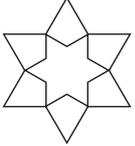
- (e) (f)

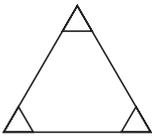
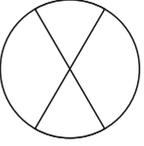
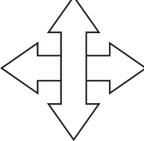


- (g) (h)

- (i) (j)

- (k) (l)

7. (a)  $\frac{1}{4}$ turn = ✗
- (b)  $\frac{1}{6}$ turn = ✓
- (c)  $\frac{1}{6}$ turn = ✗

- (d)  $\frac{1}{3}$ turn = ✓
- (e)  $\frac{1}{2}$ turn = ✓
- (f)  $\frac{1}{4}$ turn = ✗

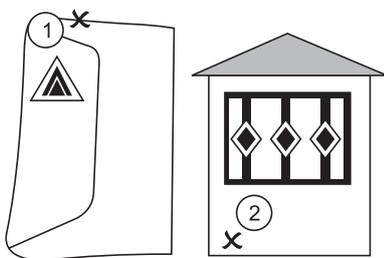
NCERT Corner

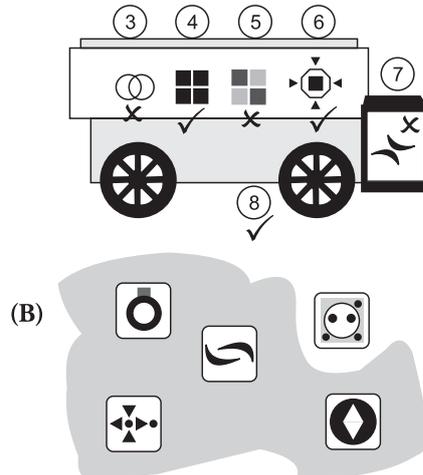
Practice Time-1

- H, I, X, N, S, Z and O.
- MOW, SWIMS, SIS, and NOON read the same on half a turn.
- 0, 1 and 8 are the numbers that look the same after half a turn.
- 2 digit numbers that look the same on half a turn are 11, 88. 3 digit numbers that look the same half a turn are 101, 111, 808, 888, 818, 181. 4 digit numbers that look the same on half a turn are 1001, 1111, 8008, 8888, 8118, 1881.

5. 

Practice Time-2

- (A) 



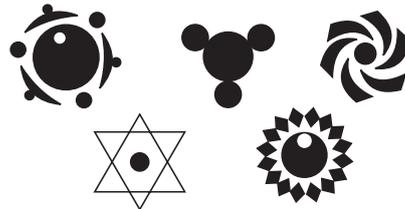
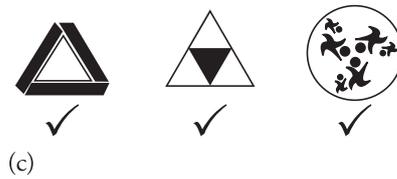
(C)

		On $\frac{1}{4}$ turn	On half turn
(a)			
(b)			
(c)			
(d)			

Image (a), (c) and (d) do not look the same on $\frac{1}{4}$ turn. Image (a) does not look the same on $\frac{1}{2}$ turn.

14 Answer Key : Maths – 5

- Fan (a) will look the same on $\frac{1}{3}$ turn.
- Shape after $\frac{1}{3}$ turn.

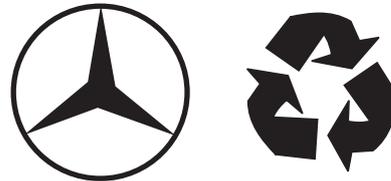


Practice Time-3

1.

		$\frac{1}{3}$ turn	$\frac{1}{6}$ turn
(a)			
(b)			
(c)			
(d)			

3. Figures that look the same after 13 turn :



4. Figures that look the same after 16 turn :



2. (a) and (b)



Disclaimer : The answer may vary from students to student, based on his/her experience. The answer provided here are for reference only.



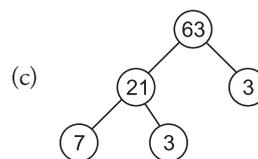
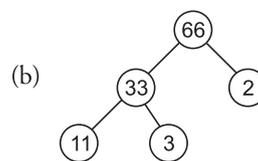
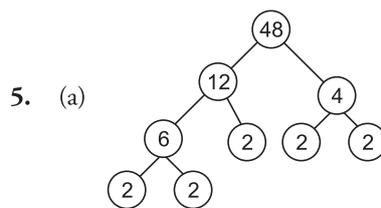
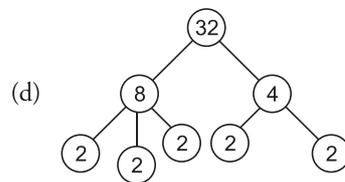
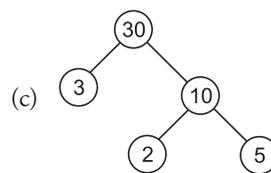
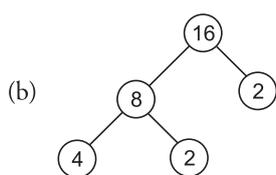
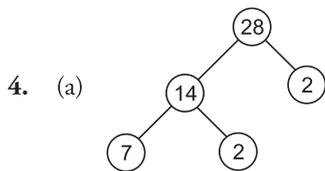
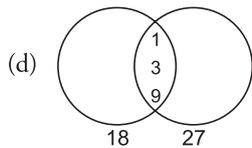
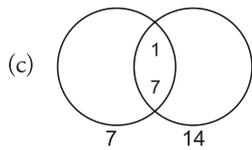
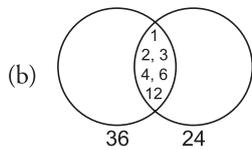
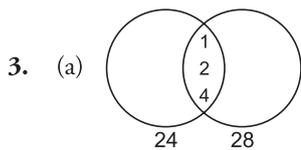
Chapter-6. My Multiple I'll be Your Factor

Time to Perform

1.

	Number	First Multiple	Second Multiple	Third Multiple
(a)	63	$63 \times 1 = 63$	$63 \times 2 = 126$	$63 \times 3 = 189$
(b)	42	$42 \times 1 = 42$	$42 \times 2 = 84$	$42 \times 3 = 126$
(c)	24	$24 \times 1 = 24$	$24 \times 2 = 48$	$24 \times 3 = 72$
(d)	60	$60 \times 1 = 60$	$60 \times 2 = 120$	$60 \times 3 = 180$
(e)	11	$11 \times 1 = 11$	$11 \times 2 = 22$	$11 \times 3 = 33$
(f)	37	$37 \times 1 = 37$	$37 \times 2 = 74$	$37 \times 3 = 111$

2.	Number	First four factors			
(a)	44	$\frac{44}{44} = \textcircled{1}$	$\frac{44}{22} = \textcircled{2}$	$\frac{44}{11} = \textcircled{4}$	$\frac{44}{4} = \textcircled{11}$
(b)	60	$\frac{60}{60} = \textcircled{1}$	$\frac{60}{30} = \textcircled{2}$	$\frac{60}{20} = \textcircled{3}$	$\frac{60}{15} = \textcircled{4}$
(c)	24	$\frac{24}{24} = \textcircled{1}$	$\frac{24}{12} = \textcircled{2}$	$\frac{24}{8} = \textcircled{3}$	$\frac{24}{6} = \textcircled{4}$
(d)	48	$\frac{48}{48} = \textcircled{1}$	$\frac{48}{24} = \textcircled{2}$	$\frac{48}{16} = \textcircled{3}$	$\frac{48}{12} = \textcircled{4}$
(e)	15	$\frac{15}{15} = \textcircled{1}$	$\frac{15}{5} = \textcircled{3}$	$\frac{15}{3} = \textcircled{5}$	$\frac{15}{1} = \textcircled{15}$
(f)	12	$\frac{12}{12} = \textcircled{1}$	$\frac{12}{6} = \textcircled{2}$	$\frac{12}{4} = \textcircled{3}$	$\frac{12}{3} = \textcircled{4}$



11. (a) $6 = 1, 2, 3, 6 = (1, 6), (2, 3)$
 (b) $15 = 1, 3, 5, 15 = (1, 15), (3, 5)$
 (c) $24 = 1, 2, 3, 4, 6, 8, 12, 24$
 $= (1, 24), (2, 12), (3, 8), (4, 6)$
12. (a) Multiple of 2 and 11
 $=$ Multiple of 2×11
 $=$ Multiple of 22
 $= 22, 44, 66, 88$
- (b) Common multiple $= 22, 44, 66,$
 LCM $= 22$
- (c) $48 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48$
 $56 = 1, 2, 4, 7, 8, 14, 28, 56$
 $72 = 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72$
- (d) Common factor $= 8$
 HCF $= 8$
13. (a) To find the greatest volume of tin in which the merchant can fill the two kinds of oil, we need to find the greatest common divisor (GCD)

of 120 and 180. The GCD of 120 and 180 is 60. Therefore, the greatest volume of tin in which the merchant can fill the two kinds of oil is 60 litres.

- (b) To find the greatest number of plants she can put in one row, need to find

HCF of 45, 81 and 63.

$$45 = 3 \times 3 \times 5 = 3^2 \times 5^1$$

$$81 = 3 \times 3 \times 3 \times 3 = 3^4$$

$$63 = 3 \times 3 \times 7 = 3^2 \times 7^1$$

HCF of given number is the largest factors which divides all the given number perfectly.

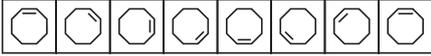
$$\text{HCF}(45, 81, 63) = 3^2 = 9$$

Hence, greatest number of plants she can put in one row is 9.



Chapter-7. Can You See the Pattern ?

Time to Perform

1. (a) 
- (b) 
2. (i) 
3. (a) 740, 760, 780, **800, 820, 840, 860, 880**
 (b) A5, B10, C15, **D20, E25, F30, G35, H40**
4. Complete Pattern 8, 16, 24, 32, 40, 48, 56
 My pattern may be as follow : 6, 12, 18, 24, 30

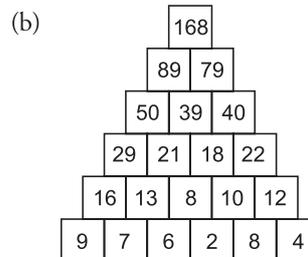
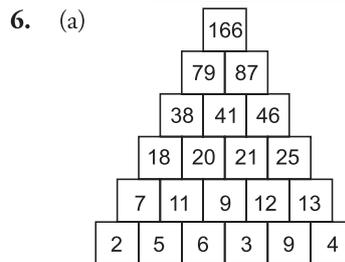
5. (a)

17	10	15
12	14	16
13	18	11
- (b)

21	16	23
22	20	18
17	24	19

(c)

14	19	18
21	17	13
16	15	20



18 Answer Key : Maths – 5

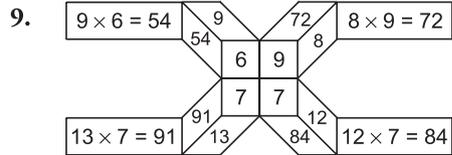
7. (a) $1 \times 1 = 1$
 $2 \times 2 = 1 + 3$
 $3 \times 3 = 1 + 3 + 5$
 $4 \times 4 = 1 + 3 + 5 + 7$
 $5 \times 5 = 1 + 3 + 5 + 7 + 9$
 $6 \times 6 = 1 + 3 + 5 + 7 + 9 + 11$
 $7 \times 7 = 1 + 3 + 5 + 7 + 9 + 11 + 13$
 $8 \times 8 = 1 + 3 + 5 + 7 + 9 + 11 + 13$
 $\quad\quad\quad + 15$
 $9 \times 9 = 1 + 3 + 5 + 7 + 9 + 11 + 13$
 $\quad\quad\quad + 15 + 17$
 $10 \times 10 = 1 + 3 + 5 + 7 + 9 + 11$
 $\quad\quad\quad + 13 + 15 + 17 + 19$

- (b) $0 \times 9 + 1 = 1$
 $1 \times 9 + 2 = 11$
 $12 \times 9 + 3 = 111$
 $123 \times 9 + 4 = 1111$
 $1234 \times 9 + 5 = 11111$
 $12345 \times 9 + 6 = 111111$
 $123456 \times 9 + 7 = 1111111$
 $1234567 \times 9 + 8 = 11111111$
 $1234568 \times 9 + 9 = 111111111$
 $1234569 \times 9 + 10 = 1111111111$

8. (b) 23
 Number turned back = 32
 $= 23 + 32$
 $= 55$
 (c) 42
 Number turned back = 24

$= 42 + 24$
 $= 66$

- (d) 53
 Number turned back = 35
 $= 53 + 35$
 $= 88$



10. (a) $1 + 2 = 3$
 $2 + 3 = 5$
 $3 + 4 = 7$
 $4 + 5 = 9$
 $5 + 6 = 11$
 $6 + 7 = 13$
 (b) $1 + 2 + 3 = 6$
 $2 + 3 + 4 = 9$
 $3 + 4 + 5 = 12$
 $4 + 5 + 6 = 15$
 $5 + 6 + 7 = 18$
 $6 + 7 + 8 = 21$
 (c) $2 + 1 = 3$
 $2 + 2 = 4$
 $2 + 3 = 5$
 $2 + 4 = 6$
 $2 + 5 = 7$
 $2 + 6 = 8$

NCERT Corner

Practice Time

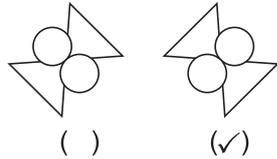
1. (a)
- (b)
- (c)
- (d)

2. (a)

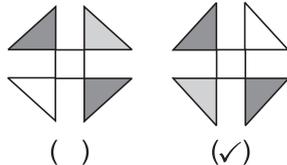
Following the pattern, the next figure will be

-
- (b)
- (c)

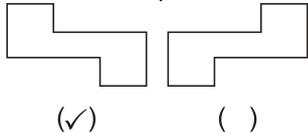
3. (a) Rule : Turn by 45° each time



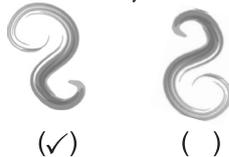
- (b) Rule : Turn by 90° each time



- (c) Rule : Turn by 90° each time



- (d) Rule : Turn by 90° each time



Number Surprises

1. (a) Let the age of my friend be 9 years.
 Adding 5 to it, we get $9 + 5 = 14$
 Multiplying this sum by 2, we get
 $14 \times 2 = 28$
 Subtracting 10, we get $28 - 10 = 18$
 Dividing it by 2, we get $\frac{18}{2} = 9$
 After doing all the operations, we again
 get the age of our friend's age as the final
 answer.

Disclaimer : The answer may vary from student to student based on his/her observation. The answer provided here is only for reference.

- (b) ☆ Take a number 10
 ☆ Double it 10 \times 2 = 20
 ☆ Multiply by 5 20 \times 5 = 100
 ☆ Divide your answer by 10 100 \div 10 = 10

Disclaimer : The answer may vary from student to student. The answers provided here are only for reference.

- (c) ☆ Take a number 6
 ☆ Double it 6 \times 2 = 12
 ☆ Again double it 12 \times 2 = 24
 ☆ Add the number you took first to the
 answer 24 + 6 = 30

- ☆ Now again double it
30 \times 2 = 60
 ☆ Divide by 10 60 \div 10 = 6

- (d) $1 = 1 \times 1$
 $121 = 11 \times 11$
 $12321 = 111 \times 111$
 $1234321 = 1111 \times 1111$
 $1234564321 = 11111 \times 11111$
 $12345654321 = 11111 \times 11111$



Chapter-8. Mapping Your Way ?

Time to Perform

1. The opposite direction of :
 (a) North is South
 (b) East is West
 (c) South is North
2. (a) The regions located in the northern part of the country are often referred to as the North Indian States.

For example, Haryana, Himachal Pradesh, Punjab, Rajasthan, Chandigarh, Delhi, J & K, Ladakh, Uttar Pradesh, Uttarakhand.

3. $36 \times 10 = 360$ km
 4. $480 \div 20 = 24$ cm

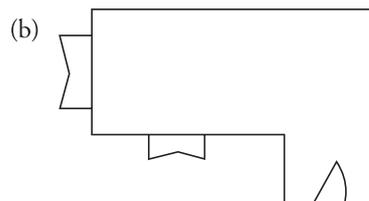
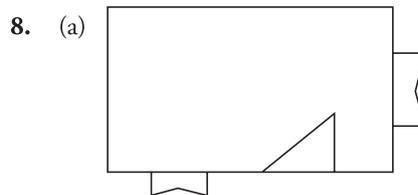
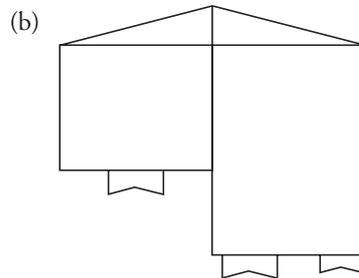
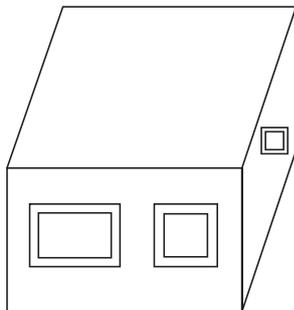
20 Answer Key : Maths – 5

5. (a) Aaramgah is in between the two buildings, Hamman and Rangmahal.
 (b) Moti Mahal building on this map is farthest from Meena Bazar.
 (c) Between Hamman and Rang Mahal two buildings is Aaramgah.
 (d) About 400 m (approx) for is Lahori Gate from Diwan-e-Khaas.
 (e) Diwan-e-Khaas is nearer to the river Yamuna.
6. (a) Display Board is exactly opposite to the blackboard.
 (b) Total 28 benches are in the classroom.
7. (a) In East direction is ASSAM situated.
 (b) In East direction is ORRISA situated.
- (c) Madhya Pradesh central state.
 (d) Maharashtra, Telangana and Karnataka are to the south of Madhya Pradesh.
 (e) Assam, Arunachal Pradesh, Manipur and Meghalya are eastern states of India.
 (f) Haryana, Uttarakhand and Punjab are states to the north of Delhi.
 (g) Sushma is going from Rajasthan to Assam. Uttra Pradesh, Bihar and West Bengal are the states that fall in between her routes.
 (h) Rashmi is going from Himachal Pradesh to Bengaluru (Karnataka). Haryana, Rajasthan, Madhya Pradesh and Maharashtra are the states that fall in between her routes.

Chapter–9. Boxes and Sketches

Time to Perform

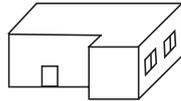
1. (a) False
 (b) False
 (c) False
 (d) True
 (e) True
2. Match the net with the shape you will get by folding.
 (a) (ii), (b) (i), (c) (iv), (d) (iii).
3. Do yourself
4. Do yourself
5. (a) 3 cubes
 (b) 8 cubes
6. Do yourself
7. (a)



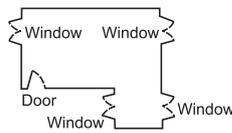
NCERT Corner

Practice Time–1

1. The doors and windows on the deep drawing of the house is shown below.



There are 2 windows that could not be shown on the deep drawing. These windows are encircle on the floor map as shown below.



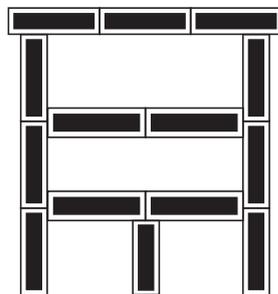
2. Do Yourself.

Practice Time–2

1. The top view of the bridge is shown below.



The front view of the bridge is shown below.



The side view of the bridge is shown below.



2. **Disclaimer** : Students are advised to prepare the answer on their own.

3. Number of cubes in the top layer = $4 + 5 = 9$

Number of cubes in the second layer from top = $4 + 5 + 3 + 4 = 16$

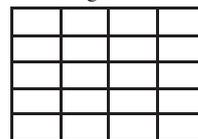
Number of cubes in the third layer from top = $4 + 5 + 3 + 4 + 2 + 3 = 21$

Number of cubes in the fourth layer from top = $4 + 5 + 3 + 4 + 2 + 3 + 2 + 1 = 24$

Number of cubes in the bottom layer = $4 + 5 + 3 + 4 + 2 + 3 + 2 + 1 + 1 = 25$

Total number of cubes in the model = $9 + 16 + 21 + 24 + 25 = 95$

The correct drawing for the top and side view is given below :



T, S



Chapter–10. Tenths and Hundredths

Time to Perform

- | | |
|--------------------------------|------------------------------|
| 1. (a) $1.4 \times 5 = 7$ cm | (c) $52.4 \times 10 = 524$ |
| (b) $1.4 \times 6 = 8.4$ cm | (d) $4.23 \div 100 = 0.0423$ |
| 2. (a) $3.69 \times 10 = 36.9$ | (e) $6.43 \div 100 = 0.0643$ |
| (b) $53.4 \times 100 = 5340$ | (f) $6.35 \div 100 = 0.0635$ |

22 Answer Key : Maths – 5

3. (a) ₹ 2.5 = $2.5 \times 100 = 250$ paise
 (b) 84 cm = $84 \times 10 = 840$ mm
 (c) 8 cm = $8 \times 10 = 80$ mm
 (d) 6 cm = $6 \times 10 = 60$ mm
 (e) 3.4 cm = $3.4 \times 10 = 34$ mm
 (f) 57 mm = $57 \div 10 = 5.7$ cm
4. (a) $2.5 < 3.7$
 (b) $64.3 = 64.30$
 (c) $6.34 < 56.7$
 (d) $5.35 < 6.57$
 (e) $43.6 > 4.65$
 (f) $64.6 > 5.35$
5. (a) 34.64 = Thirty four point six four
 (b) 42.42 = Forty two point four two
 (c) 36.75 = Thirty six point seven five
 (d) 75.16 = Seventy five point one six
6. (a) $5 \times 10 + 6 \times 1 + 3 \times \frac{1}{10} = 50 + 6 + 0.3 = 56.3$
 (b) $7 \times 10 + 4 \times 1 + 6 \times \frac{1}{10} = 70 + 4 + 0.6 = 74.6$
 (c) $0 + 4 \times \frac{1}{10} + 5 \times \frac{1}{100} = 0 + 0.4 + 0.05 = 0.45$
 (d) $4 \times 1 + 6 \times \frac{1}{10} + 3 \times \frac{1}{100} = 4 + 0.6 + 0.03 = 4.63$
7. (a) $\frac{8}{10} = 0.8$ (b) $\frac{45}{100} = 0.45$
 (c) $\frac{3}{10} = 0.3$
8. (a) Cost of two cotton candies = $2 \times 24.25 = ₹ 48.50$
 (b) Cost of four ice creams = $4 \times 47.50 = ₹ 190$
- (c) Cost of three hot dogs = $3 \times 45.99 = ₹ 137.97$
 (d) Cost of four candies and four ice creams = $4 \times 5.99 + 4 \times 47.50 = ₹ 223.96$
 (e) Cost of six cotton candies and half a dozen cookies = $6 \times 24.25 + 12 \times 69.50 = ₹ 215$
 (f) Cost of a small cake and four hot dogs = $99.99 + 4 \times 45.99 = ₹ 283.95$
 (g) Cost of two hot dogs and a dozen cookies = $2 \times 45.99 + 12 \times 69.50 = ₹ 230.98$
 (h) Cost of two ice creams and three cotton candies = $2 \times 47.50 + 3 \times 24.75 = ₹ 167.75$
 (i) Cost of three small cakes and a hot dog = $3 \times 99.99 + 45.99 = ₹ 345.96$
 (j) Cost of eight ice creams and three small cakes = $8 \times 47.50 + 3 \times 99.99 = ₹ 679.97$
9. (a) Sri Lanka money costs the least in Indian rupees.
 (b) America's money costs the most in Indian rupees.
10. (a) Total earning in Indian rupees = $240 \times 83.12 = ₹ 19,948.80$
 (b) 357 dollars = $357 \times 83.12 = 29673.84$
 440 Yuan = $440 \times 11.68 = 5139.20$
 Mrs. Sharma earns more.
 Total money difference of both = $29673.84 - 5139.20 = ₹ 24534.64$
 (c) 630 Yuan = $630 \times 0.56 = 352.80$
 364 Lankan ruppes = $634 \times 0.27 = ₹ 171.18$
 Mrs. Gupta earns more.
 (d) $330 \times 0.62 = ₹ 204.60$

NCERT Corner**Practice Time–1**

1. Length of nail = 2 cm 9 mm Now,
 10 mm = 1 cm
 1 mm = 110 cm
2. Length of lady finger is 8 cm and 4 mm
 Now, 10 mm = 1 cm
- 9 mm = 0.9 cm
 So, 2 cm 9 mm = 2.9 cm

$$1 \text{ mm} = 110 \text{ cm}$$

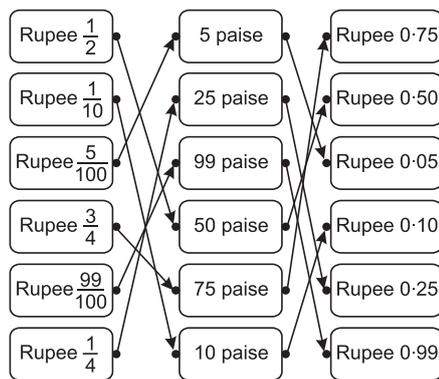
$$4 \text{ mm} = 0.4 \text{ cm}$$

$$\text{So, } 8 \text{ cm } 4 \text{ mm} = 8.4 \text{ cm}$$

3. Using the scale on this page find the difference in length between candle 1 and candle 3.

Length of	Length in cm and mm	Length in cm
Candle 1	2 cm 9 mm	2.9 cm
Flame 1	1 cm 3 mm	1.3 cm
Candle 2	4 cm 9 mm	4.9 cm
Flame 2	1 cm 9 mm	1.9 cm
Candle 3	6 cm	6.0 cm
Flame 3	1 cm 9 mm	1.9 cm

Practice Time–2



Practice Time–3

1. (A) The money of England will cost the most in Indian Rupees as 1 pound is equal to Rs 77.76
- (B) We find from the chart that, 1 US dollars = Rs 39.70 = 39 rupees 70 paise = 39×100 paise + 70 paise = 3900 paise + 70 paise = 3970 paise
 10 US dollars = 10×3970 paise = 39700 paise = Rs 397.00
 So, Mithun got Rs 397.00 from his uncle as a gift.
 Money spent on school trip by Mithun = Rs 350.00 So, money left with Mithun = Rs 397.00 – 350.00 = Rs 47.00
 $397.00 - 350.00 = 47.00$

Answer Key : Maths – 5 23

- (C) Here, we are considering the exchange rates of Dirham in place of Saudi Riyal. Salary of Majeed's father = 1000 Dirham
 We find from the chart that, 1 Dirham = Rs 10.80 = 10 rupees 80 paise = $10 \times 100 + 80$ paise = 1000 + 80 paise = 1080 paise
 So, 1000 Dirhams = 1000×1080 paise = 1080000 paise = Rs 10800
 Therefore, salary of Majeed's father = Rs 10800.00
 Salary of Arun's father = 2000 Sri Lankan Rupees
 We find from the chart that, 1 Sri Lankan Rupee = Re 0.37 = 37 paise
 So, 2000 Sri Lankan Rupees = 2000×37 paise = 74000 paise = Rs 740.00
 Therefore, salary of Arun's father = Rs 740
 Thus, Majeed's father gets more salary in Indian Rupees than Arun's father.
- (D) Price of present bought by Leena's aunty = 30 Yuan
 We find from the chart that,
 1 Yuan = Rs 5.50 = 5 rupees 50 paise = $5 \times 100 + 50$ paise = 500 + 50 paise = 550 paise
 So, 30 Yuan = 30×550 paise = 16500 paise = Rs 165
 So, the cost of the gift in Indian Rupees is Rs 165.00
- (E) (1) We find from the chart,
 1 Won = Re 0.04 = 4 paise
 We know that, Re 1 = 100 paise
 So, Rs 4 = 4×100 paise = 400 paise
 Rs 400 = 400×100 paise = 40000 paise
 Now, 4 paise = 1 Won
 So, 400 paise = $400 \div 4$ Won = 100 Won
 and 40000 paise = $40000 \div 4$ Won = 10000 Won
 Thus, Astha can change

24 Answer Key : Maths – 5

100 Won for Rs 4, and 10000 Won for Rs 400.

- (2) We find from the chart,
 1 Hong Kong Dollar = Rs 5.10
 = 5 rupees 10 paise = $5 \times 100 + 10$ paise = 500 + 10 paise = 510 paise
 Total money with Astha = Rs 508 = 508×100 paise = 50800 paise
 50800 paise = $50490 + 310$ paise
 50800 paise = $510 \times 99 + 310$ paise
 50800 paise = 510 HKD + 310 paise
 Now,
 310 paise = 300 paise + 10 paise
 = 3 rupees and 10 paise
 = Rs 3.10
 Thus, Astha can change 99 HKD for Rs 508 and Rs 3.10 is left with her.

2.

Item	Quantity	Price (Rupees)
Soap	1	12.50
Green Gram Tea	1 kg	50.25
Coconut Oil	250 gm	27.25
	1 Litre	60.00
	Total	150.00

3. (1) Mumbai had the highest temperature i.e. 35.1°C at 3 pm. Srinagar was the coolest place with the temperature of 8.1°C at 3 pm.

- (2) Temperature of Mumbai at 3 pm = 35.1°C temperature of Srinagar at 3 pm = 8.1°C Difference in temperature = $35.1^\circ\text{C} - 8.1^\circ\text{C} = 27^\circ\text{C}$

- (3) Temperature of Thiruvananthapuram at 3 pm = 33.5°C
 Rise in the temperature needed to attain a temperature of $40^\circ\text{C} = 40^\circ\text{C} - 33.5^\circ\text{C} = 6.5^\circ\text{C}$

- (4) Temperature of Chennai at 3 pm = 29.9°C Temperature of Kolkata at 3 pm = 26.6°C Difference between temperature = $29.9^\circ\text{C} - 26.6^\circ\text{C} = 3.3^\circ\text{C}$

- (5) (a) Temperature of Srinagar at 3 am = 1.3°C it will be very cold there.

- (b) Temperature of Chennai at 3 pm = 29.9°C

Temperature of Chennai at 3 am = 21.1°C

Difference between temperature = $29.9^\circ\text{C} - 21.1^\circ\text{C} = 8.8^\circ\text{C}$

Temperature of Bhopal at 3 pm = 25.9°C

Temperature of Bhopal at 3 am = 9.8°C

Difference between temperature = $25.9^\circ\text{C} - 9.8^\circ\text{C} = 16.1^\circ\text{C}$



Chapter-11. Area and Its Boundary

Time to Perform

1. (a) Area of square = (side)²
 = $(16)^2 = 256$ sq cm
 (b) Area of rectangle = length \times breadth
 = 32 cm \times 12 cm
 = 384 sq. cm

- (c) Perimeter of square = 64 cm
 $\Rightarrow 4 \times$ side = 64
 \Rightarrow side = $64 \div 4$
 \Rightarrow side = 16 cm

- (d) Perimeter of square = 48 cm
 $\Rightarrow 4 \times \text{side} = 48$
 $\Rightarrow \text{side} = 48 \div 4$
 $\Rightarrow \text{side} = 12 \text{ cm}$
 Area of square = (side)²
 $= (12)^2 = 144 \text{ sq. cm}$
2. (a) Perimeter = $2(11 + 8)$
 $= 2 \times 19 = 38 \text{ m}$
- (b) Area = $l \times b = 192 = l \times 3$
 $\Rightarrow l = 192 \div 3$
 $\Rightarrow l = 64 \text{ m}$
 Perimeter = $2(l + b)$
 $= 2(64 + 3)$
 $= 2 \times (67)$
 $= 134 \text{ m}$
- (c) Perimeter = $2(l + b)$
 $\Rightarrow 2(15 + b) = 44$
 $\Rightarrow 15 + b = 44 \div 2$
 $\Rightarrow 15 + b = 22$
 $\Rightarrow b = 22 - 15$
 $\Rightarrow b = 7$
 \therefore Breadth = 7 m
3. Perimeter = $2(l + b)$
 \Rightarrow Perimeter = $2(12 + 4)$
 $= 2 \times 16 = 32 \text{ cm}$

4. Perimeter = $4 \times \text{side}$
 $= 4 \times 63 = 252 \text{ cm}$
 Area = (side)²
 $= (63)^2 = 3969 \text{ sq. cm}$
5. Perimeter = 72 cm
 Area = $17 \times 16 = 272 \text{ sq. cm.}$
6. Perimeter = $4 + 1 + 1 + 1 + 1 + 1 + 4 + 1$
 $+ 1 + 1 + 3 + 3 + 3 + 1 + 1 + 1$
 $= 4 + 5 + 4 + 3 + 9 + 3$
 $= 9 + 7 + 12 = 28 \text{ cm}$
7. Side of file = 10 cm
 Area of file = $(10)^2 = 100 \text{ sq. cm}$
 Area of kitchen = $l \times b$
 $= 200 \times 150 \text{ sq. cm}$
 Number of tiles required
 $= \frac{\text{Area of kitchen}}{\text{Area of tile}} = \frac{200 \times 150}{100}$
 $= 300$
8. Length of garden = 6 m
 Width of garden = 9 m
 (a) Perimeter of garden = $2(6 + 9)$
 $= 2 \times 15 = 30 \text{ m}$
 (b) Area of garden = $l \times b$
 $= 6 \times 9 = 54 \text{ sq. m.}$

NCERT Corner

Practice Time–1

1. (a) Length of kitchen = 220
 Each side of tile = 10 cm
 Number of tiles that can be placed along its length
 $= \frac{\text{Length of kitchen}}{\text{Length of each tile}} = \frac{220}{10} = 22$
 Breadth of kitchen = 180 cm
 Length of each side of tile = 10 cm
 Number of tiles that can be placed along its breadth
 $= \frac{\text{Breadth of kitchen}}{\text{Breadth of each tile}} = \frac{180}{10} = 18$

Number of tiles that he will need for kitchen = $22 \times 18 = 396$

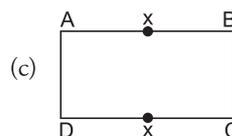
- (b) Length of the fencing of square garden = 20 m

We know that a square has 4 sides and all its sides are equal.

So, length of each side of a square

$$= \frac{\text{Length of fencing of garden}}{\text{Number of sides of a square}}$$

$$= \frac{20}{4} = 5 \text{ cm}$$



26 Answer Key : Maths – 5

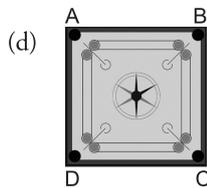
We know that a rectangle has two equal lengths and two equal widths.
Now, width of a rectangle = BC = AD = 4 cm

Sum of the two widths of rectangle = 4 cm + 4 cm = 8 cm

Also, length of rectangle = AB = CD
So, we get the remaining length of rectangle = 20 cm – 8 cm = 12 cm

Now, we know a rectangle has two lengths and they are equal. So, we divide it by 2 to get the length.

Length of rectangle = $\frac{12}{2}$ cm = 6 cm



As the carrom board is square, so length of all its sides will be equal.
Side = AB = BC = CD = AD

Therefore, its perimeter = sum of all its sides = 320 cm

Now, all the 4 sides are equal, so we divide 320 by 4. Thus, length of each side = $\frac{320}{4}$ cm = 80 cm

Now, area of a square carrom board = side × side = 80 cm × 80 cm = 6400 square cm

- (e) Area of the design = 1 full square + 4 half squares
 $= (1 + 2)$ full squares
 $\therefore = 3$ full squares
 $= 3 \times 1$ square cm
 $= 3$ square cm
 Area of one tile = half of the cm square

$$= \frac{1}{2} \text{ square cm}$$

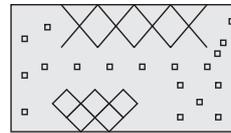
Number of tiles

$$= \frac{\text{Area of the design}}{\text{Area of one tile}}$$

$$= \frac{3}{\frac{1}{2}} = 3 \times \frac{2}{1} = 6$$

Own designs of area 4 and 6 square cm are shown :

Design of area 4 square cm and 6 square cm :



- (f) Perimeter of Sanya's card = Sum of all its sides = 10 + 8 + 10 + 8 = 36 cm

Length of Manav's card = 11 cm

Perimeter of his card = 44 cm

We have to find the width of Manav's card.

Perimeter of card = Sum of all its sides = 11+11+ sum of 2 other sides = 22 + sum of 2 other sides

Now, sum of two other sides = 44 – 22 = 22 cm

The two other sides of the greeting cards are width.
So, width of Manav's card = 22 ÷ 2 = 11 cm

Width of Aarushi's card = 8 cm
Area of the card = 80 square cm

Now, we have to find length of the card.

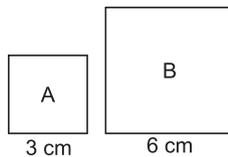
Area of card = Length of card × 8 cm = 80 square cm
So, on dividing the area of card by its width, we can get its length. Therefore, length of Aarushi's card = 80 ÷ 8 = 10 cm.

Whose card	Length	Width	Perimeter	Area
Sanya	10 cm	8 cm	36 cm	80 square cm
Manav	11 cm	11 cm	44 cm	121 square cm
Aarushi	10 cm	8 cm	36 cm	80 square cm
Kabir	10 cm	10 cm	40 cm	100 square cm

Practice Time–2

A.		Square cm	Square metre	Square km
	Handkerchief	✓		
	Sari		✓	
	Page of your book	✓		
	School land			✓
	Total land of a city			✓
	Door of your classroom		✓	
	Chair seat	✓		
	Blackboard		✓	
	Indian flag	✓		
	Land over which a river			✓

B.



1. Each side of square A = 3 cm So, perimeter of square A = Sum of all its sides = $3 + 3 + 3 + 3 = 12$ cm
2. Each side of square B = Double the side of square A So, side of square B = $2 \times$ length of side of square A =

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

3. Area of square B = $6 \times 6 = 36$ square cm
4. Area of square A = $3 \times 3 = 9$ square cm So, area of square B is 4 times the area of square A.
5. Perimeter of square B = Sum of all its sides = $6 + 6 + 6 + 6 = 24$ cm
6. Perimeter of square B is 2 times the perimeter of square A.



Chapter–12. Smart Charts

Time to Perform

1.	Day	Tally Marks	Number of Children
	Car		16
	Bus		17
	Cycle		24
	Walk		23

2. (a) Drawing is the most common hobby.
- (b) Singing is the least common hobby.
- (c) 32 children like dancing and singing.

- (d) 40 children like gardening and playing.
- (e) 10 more children like dancing than singing.
- (f) 6 more children like drawing than gardening.

3. (a) Thursday
- (b) Monday
- (c) $36 \times 7 = 252$ notebooks
- (d) $9 \times 7 = 63$ notebooks
- (e) $8 \times 7 = 56$ notebooks
- (f) $16 \times 7 = 112$ notebooks

2. (a)
$$\begin{array}{r} 73 \\ \times 68 \\ \hline 584 \\ 438 \times \\ \hline 4964 \end{array}$$

(b)
$$\begin{array}{r} 85 \\ \times 58 \\ \hline 680 \\ 425 \times \\ \hline 4930 \end{array}$$

(c)
$$\begin{array}{r} 79 \\ \times 25 \\ \hline 395 \\ 158 \times \\ \hline 1975 \end{array}$$

(d)
$$\begin{array}{r} 85 \\ \times 79 \\ \hline 765 \\ 595 \times \\ \hline 6715 \end{array}$$

(e)
$$\begin{array}{r} 63 \\ \times 47 \\ \hline 441 \\ 252 \times \\ \hline 2961 \end{array}$$

3. (a) 14) 2730 (195

$$\begin{array}{r} -14 \\ \hline 133 \\ -126 \\ \hline 70 \\ 70 \\ \hline \times \\ 195 \times 14 = 2730 \text{ verified.} \end{array}$$

(b) 21) 9576 (456

$$\begin{array}{r} -84 \\ \hline 117 \\ -105 \\ \hline 126 \\ -126 \\ \hline \times \\ 456 \times 21 = 9576 \text{ verified.} \end{array}$$

(c) 14) 8372 (598

$$\begin{array}{r} -70 \\ \hline 137 \\ -126 \\ \hline 112 \\ -112 \\ \hline \times \\ 598 \times 14 = 8372 \text{ verified.} \end{array}$$

(d) 15) 3555 (237

$$\begin{array}{r} -30 \\ \hline 56 \\ -45 \\ \hline 105 \\ -105 \\ \hline \times \\ 237 \times 15 = 3555 \text{ verified.} \end{array}$$

4. (a) $125 \div 5 \square 5 \times 3 \Rightarrow 25 \square 15$
 (b) $153 \div 3 \square 10 \times 5 \Rightarrow 51 \square 50$
 (c) $119 \div 7 \square 4 \times 6 \Rightarrow 17 \square 24$
 (d) $45 \div 9 \square 3 \times 2 \Rightarrow 5 \square 6$
 (e) $27 \div 3 \square 3 \times 3 \Rightarrow 9 \square 9$
 (f) $225 \div 5 \square 10 \times 4 \Rightarrow 45 \square 40$

5. (a) $75 - 50 = 25$
 (b) $70 \div 5 = 14$
 (c) $16 \times 8 = 128$
 (d) $325 - 25 = 300$
 (e) $27 \times 9 = 243$
 (f) $448 \div 8 = 56$

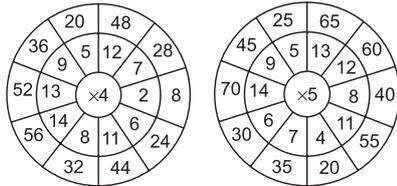
6. (a) Money Shona get in one year
 $= 243 \times 12 = ₹ 2916$
 (b) Money Anay get in 2 months
 $= 156 \times 2 = ₹ 312$
 (c) Money Anand get in 60 days
 $= 104 \times 2 = ₹ 208$
 (d) Money Pihu get in half a year
 $= 262 \times 6 = ₹ 1572$
 (e) Money Piyush get in a dozen months
 $= 293 \times 12 = ₹ 3516$
 (f) Money Shona and Anay get altogether in one months
 $= 243 + 156 = ₹ 399$
 (g) Money, Pihu, Shona and Anay get altogether in 2 month
 $= 2 \times ₹ (262 + 249 + 156)$
 $= ₹ 661 \times 2$
 $= ₹ 1322$

30 Answer Key : Maths – 5

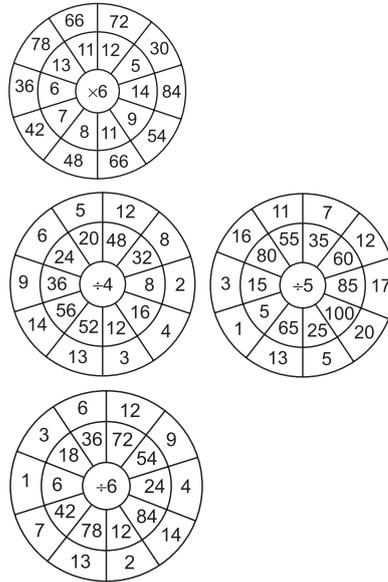
- (h) Money Piyush, Pihu and Anand get altogether in 3 months
 $= 3 \times ₹ (293 + 262 + 104)$
 $= ₹ 659 \times 3$
 $= ₹ 1977$
- (i) Money all the children get altogether in a month
 $= 293 + 243 + 262 + 156 + 104$
 $= ₹ 1058$
- (j) Money Anand get in 6 years
 $= 104 \times 72 = ₹ 7488$
- (k) Money Shona get in 10 years
 $= 243 \times 120 = ₹ 29160$

7. (a) $a + a = b \Rightarrow 1 + 1 = b \Rightarrow \boxed{b = 2}$
- (b) $(x) \times (x) = y \Rightarrow 2 \times 2 = 4 \Rightarrow \boxed{y = 4}$
- $y + y = z \Rightarrow 4 + 4 = 8 \Rightarrow \boxed{z = 8}$

8.



9.



10. (a) $1625 \div 25 = 65$ litre
 (b) $675 \times 25 = 16875$ litre
 (c) $3057 \div 3 = 1019$ families
 (d) $3430 \div 35 = 98$ boxes
 (e) $1173 \div 69 = 17$ apples
 (f) $91 \times 8 = 728$ bottle caps
 (g) $32 \times 3 = 96$ chocolates

NCERT Corner

Practice Time-1

1. (a)

$$\begin{array}{r} 32 \\ \times 46 \\ \hline 192 \quad (32 \times 6) \\ + 1280 \quad (32 \times 40) \\ \hline 1472 \end{array}$$

(b)

$$\begin{array}{r} 67 \\ \times 18 \\ \hline 536 \quad (67 \times 8) \\ + 670 \quad (67 \times 10) \\ \hline 1206 \end{array}$$

2. (a)

$$\begin{array}{r} 47 \\ \times 19 \\ \hline 423 \quad (47 \times 9) \\ + 470 \quad (47 \times 10) \\ \hline 893 \end{array}$$

(b)

$$\begin{array}{r} 188 \\ \times 91 \\ \hline 188 \quad (188 \times 1) \\ + 16920 \quad (188 \times 90) \\ \hline 17108 \end{array}$$

(c)

$$\begin{array}{r} 63 \\ \times 57 \\ \hline 441 \quad (63 \times 7) \\ + 3150 \quad (63 \times 50) \\ \hline 3591 \end{array}$$

(d)

$$\begin{array}{r} 225 \\ \times 22 \\ \hline 450 \quad (225 \times 2) \\ + 4500 \quad (225 \times 20) \\ \hline 4950 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad 360 \\
 \times 12 \\
 \hline
 720 \quad (360 \times 2) \\
 + 3600 \quad (360 \times 10) \\
 \hline
 4320
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad 163 \\
 \times 42 \\
 \hline
 326 \quad (163 \times 2) \\
 + 6520 \quad (163 \times 40) \\
 \hline
 6846
 \end{array}$$

Practice Time–2

- (a) He will earn in 52 days ₹ 98 per day = 98 × 52 = ₹ 5096
- (b) He will pay in 2 years ₹ 2750 per month = 24 × 2750 = ₹ 66000
- (c) Total cost of milk selling per day = 23 × 13 = ₹ 299
- (d) Total earning in a month = 11 × 210 = ₹ 2310
- (e) Total cost = 12 × 240 = ₹ 2880

Practice Time–3

1. (a) 4) 4228 (1057

$$\begin{array}{r}
 - 4 \\
 \hline
 22 \\
 - 20 \\
 \hline
 28 \\
 - 28 \\
 \hline
 \times
 \end{array}$$

- (b) 22) 770 (35

$$\begin{array}{r}
 - 66 \\
 \hline
 110 \\
 - 110 \\
 \hline
 \times
 \end{array}$$

- (c) 8) 9872 (1234

$$\begin{array}{r}
 - 8 \\
 \hline
 18 \\
 - 16 \\
 \hline
 27 \\
 - 24 \\
 \hline
 32 \\
 - 32 \\
 \hline
 \times
 \end{array}$$

- (d) 21) 672 (32

$$\begin{array}{r}
 63 \\
 42 \\
 \hline
 42 \\
 \hline
 \times
 \end{array}$$

- (e) 7) 772 (11

$$\begin{array}{r}
 - 7 \\
 \hline
 7 \\
 - 7 \\
 \hline
 2
 \end{array}$$

- (f) 13) 639 (47

$$\begin{array}{r}
 - 52 \\
 \hline
 119 \\
 - 117 \\
 \hline
 2
 \end{array}$$

Practice Time–4

1. Number of boxes = 576 ÷ 24 = 24 boxes
2. Number of people = 836 ÷ 44 = 19 boxes
3. Number of rows = 458 ÷ 15 = 30 Rows
8 trees left over

Make the Best Story Problem

1. (b) Option (a) is not a good choice because the price is not given in the story.
Option (c) is not good choice because the total number of boxes is given in the story.
2. (b) Option (a) is not a good choice because the number of children for each tent is already given.
Option (c) is not a good choice because the number of children is already given.
3. (c) Option (a) is not a good choice because the total number of eggs is already given.
4. (b) Option (b) is not a good choice because there is no data on the number of fresh or spoiled eggs.

32 Answer Key : Maths – 5

Practice Time–5

1. (a) $9) 438 (48$

$$\begin{array}{r} -36 \\ \hline 78 \\ -72 \\ \hline 6 \end{array}$$

Check

$$438 = 9 \times 48 + 6 = 432 + 6 = 438 \quad \text{verified}$$

(b) $12) 3480 (290$

$$\begin{array}{r} -24 \\ \hline 108 \\ -108 \\ \hline 0 \end{array}$$

Check

$$3480 = 12 \times 290 = 3480$$

verified

(c) $7) 450 (64$

$$\begin{array}{r} -42 \\ \hline 30 \\ -28 \\ \hline 2 \end{array}$$

Check

$$450 = 7 \times 64 + 2 = 450$$

verified

(d) $10) 900 (9$

$$\begin{array}{r} -90 \\ \hline 00 \\ -0 \\ \hline \times \end{array}$$

Check

$$900 = 10 \times 90$$

verified

(e) $6) 678 (113$

$$\begin{array}{r} -6 \\ \hline 07 \\ -6 \\ \hline 18 \\ -18 \\ \hline \times \end{array}$$

Check

$$678 = 6 \times 113$$

verified

(f) $2475 \div 11$

$$\begin{array}{r} 11) 2475 (225 \\ \underline{22} \\ 27 \\ \underline{22} \\ 55 \\ \underline{55} \\ 0 \end{array}$$

Check

$$2475 = 225 \times 11$$

verified

2. $21 \times 16 = 336$ $15 \times 7 = 105$ $93 \times 2 = 186$ $17 \times 5 = 85$ $10 \times 10 = 100$
 $26 \times 26 = 676$ $77 \times 10 = 770$ $50 \times 10 = 500$ $11 \times 11 = 121$ $59 \times 7 = 413$
 $85 \times 30 = 2550$ $64 \times 42 = 2688$ $3200 \div 40 = 80$ $19 \times 3 = 57$ $248 \div 8 = 31$
 $432 \div 18 = 24$ $729 \div 9 = 81$ $825 \div 5 = 165$ $221 \div 13 = 17$ $576 \div 12 = 48$
 $228 \div 4 = 57$ $869 \div 11 = 79$ $847 \div 7 = 121$ $981 \div 3 = 327$ $475 \div 19 = 25$
 $31 \times 19 = 589$

545	110	434	642	709	623	919	341	12	168
984	16	561	608	236	413	529	62	259	905
709	907	367	632	336	121	492	178	431	25
166	806	584	186	100	589	72	717	248	676
624	82	105	24	165	17	85	770	327	500
247	997	485	2688	81	80	48	901	126	121
742	427	756	531	79	2550	337	1001	314	57
945	1000	687	584	1200	31	124	3126	978	53
109	799	845	1999	864	955	123	1234	678	56
549	459	614	1864	834	559	900	1111	268	171

Chapter-14. How Big ? How Heavy ?

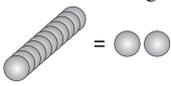
Time to Perform

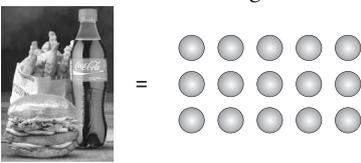
1. (a) The amount of space displaced by an object in a liquid is called volume (capacity).
 (b) The volume of an eyedropper is measured in mL.
 (c) The volume of a water tank is measured in L.
 (d) The volume of a cube whose each edge is 4 cm long is 64 cm^3 .
 (e) The volume of a cube whose each edge is 8 cm long is 512 cm^3 .

2.

	Number of Marbles	Water Raised
(a)	2	6 mL
(b)	4	8 mL
(c)	2	14 mL
(d)	7	14 mL
(e)	8	16 mL

3. Weight of 1000 coins
 $= 85 \times 1000 = 85000 \text{ g}$
 $= 85 \text{ kg}$

4. (a)  = $60 \times 2 = 120 \text{ gm}$

- (b)  = $15 \times 60 = 900 \text{ gm}$

5. (a) $4 \times 11 = 44 \text{ g}$
 (b) $12 \times 11 = 132 \text{ g}$
 (c) $11 \times 11 = 121 \text{ g}$
 (d) $10 \times 11 = 110 \text{ g}$
6. (a) Volume of Anu's cube = $(3)^3 = 27$
 (b) Volume of Hemant's cube = $(9)^3 = 729$
 (c) 729 cubes

7. (a) Volume = $2 \times 7 \times 12 = 16 \text{ cube cm}$
 (b) Volume = $7 \times 2 \times 2 = 28 \text{ cube cm}$
8. (a) Volume = $3 \times 2 \times 6 = 36 \text{ cm}^3$
 (b) Height of 4 boxes = $4 \times 6 = 24 \text{ cm}$
 (c) Volume = $34 \times 5 \times 6 = 1020 \text{ cm}^3$
 (d) Space left
 $= \text{Volume of bag} - \text{Volume of box}$
 $= 16 \times 5 \times 20 - 8 \times 3 \times 10$
 $= 1600 - 240 = 1360 \text{ cm}^3$
9. (a) Weight of 12 red balls = $12 \times 4 = 48 \text{ g}$
 (b) Weight of 42 pink balls = $42 \times 8 = 336 \text{ g}$
 (c) Weight of 37 green balls = $37 \times 14 = 518 \text{ g}$
 (d) Weight of 62 green balls and 24 pink balls = $62 \times 14 + 24 \times 8 = 868 + 192 = 1060$
 (e) Weight of 14 green balls and 63 red balls = $14 \times 14 + 63 \times 4 = 196 + 252 = 448 \text{ g}$
 (f) Weight of 26 pink balls and 22 red balls = $26 \times 8 + 22 \times 4 = 208 + 88 = 296 \text{ g}$
10. (a) The quantity of rice needed for 3 people in 1 day = $90 \text{ g} \times 3 = 270 \text{ g}$
 (b) The quantity of oil needed for 5 people in 2 days = $5 \times 50 \times 2 = 500 \text{ g}$
 (c) The quantity of tea leaves needed for 2 people in 3 days = $9 \times 2 \times 3 = 54 \text{ g}$
 (d) The quantity of pulses needed for a person in 6 days = $180 \times \frac{1}{3} \times 6 = 360 \text{ g}$
 (e) The quantity of milk powder needed for a person in 5 days = $40 \times 5 = 200 \text{ g}$

34 Answer Key : Maths – 5

- (f) The quantity of coffee needed for 4 people in 6 days = $10 \times 4 \times 6 = 240$ g
- (g) The quantity of salt needed for 2 people in 4 days = $12 \times 2 \times 4 = 96$ g
- (h) The quantity of wheat flour needed for 3 people in 5 days = $180 \times 3 \times 5 = 2700$ g
- (i) The quantity of sugar needed for 1 person in 3 days = $70 \times 3 = 210$ g
- (j) The quantity of rice needed for 4 people in 3 days = $\frac{1}{2} \times 180 \times 4 \times 3 = 1080$ g

NCERT Corner**Practice Time–1**

1. Volume of 1 Math-Magic book = 540 cm cubes. 5 Math-Magic books are used to make the stage. So, volume of the stage = Volume of 5 such Math-Magic books = 5×540 cm cubes = 2700 cm cubes
2. ● A matchbox is about 13.5 cm cubes.
● A geometry box is about 157.5 cm cubes.
● An eraser is about 1.5 cm cubes.

We will multiply the length, breadth and height of the object to cross-check our guess.

Practice Time–2

1. ● In the bottom layer, we can see that there are 4 matchboxes in length and 4 in breadth. So, the bottom layer has 16 match boxes.

In the layer above the bottom, we can see that there are 3 matchboxes in length and 3 in breadth. So, the layer above bottom has 9 matchboxes. Now, the second layer from the top has 2 matchboxes in length and 2 matchboxes in breadth. So, this layer has 4 matchboxes.

The top layer has only 1 matchbox. Thus, total volume of the arrangement in terms of matchboxes = $16 + 9 + 4 + 1 = 30$

Disclaimer : The answer may vary from student to student, based on his/her observation. It is highly recommended that the student prepare the answer on their own.

Appendix : Alternation Methods of Mathematics**Practice Time–1**

1. $\frac{12 \times 22}{1 \times 2 \mid 2 \times 1 + 2 \times 2 \mid 4}$
= $2 \mid 2 + 4 \mid 4$
= $2 \mid 6 \mid 4$
= 264 **verified**
2. $\frac{32 \times 21}{6 \mid 3 + 4 \mid 2}$
= $6 \mid 7 \mid 2$
= 672 **verified**
3. $\frac{61 \times 21}{12 \mid 6 + 2 \mid 1}$
= $12 \mid 8 \mid 1$
= 1281 **verified**

4. $\frac{43 \times 42}{16 \mid 8 + 2 \mid 6}$
= $16 \mid 20 \mid 6$
= 1806 **verified**
5. $\frac{45 \times 85}{12 \mid 20 + 40 \mid 25}$
= $12 \mid 60 \mid 25$
= $18 \mid 0 \mid 5$
= 1805 **verified**
6. $\frac{88 \times 22}{16 \mid 16 + 16 \mid 16}$
= $16 \mid 32 \mid 16$
= 1936 **verified**

7. $\begin{array}{r} 122 \times 211 \\ \hline 2 \mid 4 + 1 \mid 1 + 2 + 4 \mid 2 + 2 \mid 2 \\ = 2 \mid 5 \mid 7 \mid 4 \mid 2 \\ = 25742 \end{array}$

verified

8. $\begin{array}{r} 121 \times 212 \\ \hline 2 \mid 5 \mid 6 \mid 5 \mid 2 \\ = 25652 \end{array}$

verified

9. $\begin{array}{r} 322 \times 211 \\ \hline 6 \mid 7 \mid 9 \mid 4 \mid 2 \\ = 67942 \end{array}$

verified

10. $\begin{array}{r} 511 \times 224 \\ \hline 10 \mid 12 \mid 24 \mid 6 \mid 4 \\ = 11 \mid 4 \mid 4 \mid 6 \mid 4 \\ = 114464 \end{array}$

verified

11. $\begin{array}{r} 333 \times 222 \\ \hline 6 \mid 12 \mid 18 \mid 12 \mid 6 \\ = 7 \mid 3 \mid 9 \mid 2 \mid 6 \\ = 73926 \end{array}$

verified

12. $\begin{array}{r} 555 \times 55 \\ \hline 25 \mid 50 \mid 75 \mid 50 \mid 25 \\ = 25 \mid 50 \mid 75 \mid 52 \mid 5 \\ = 25 \mid 50 \mid 80 \mid 2 \mid 5 \\ = 25 \mid 58 \mid 0 \mid 2 \mid 5 \\ = 30 \mid 8 \mid 0 \mid 2 \mid 5 \\ = 308025 \end{array}$

verified

Practice Time–2

1. $\begin{array}{r} 9 \mid 72 \mid 8 \\ - 72 \\ \hline \times \end{array}$

Check

$72 = 9 \times 8$ **verified**

2. $\begin{array}{r} 5 \mid 180 \mid 36 \\ - 15 \\ \hline 30 \\ - 30 \\ \hline \times \end{array}$

Check

$180 = 36 \times 5$ **verified**

3. $20 \mid 5240 \mid 262$

$$\begin{array}{r} - 40 \\ \hline 124 \\ - 120 \\ \hline 40 \\ - 40 \\ \hline \times \end{array}$$

Check

$5240 = 262 \times 20$ **verified**

4. $23 \mid 2395 \mid 104$

$$\begin{array}{r} - 23 \\ \hline 95 \\ - 92 \\ \hline 3 \end{array}$$

Check

$2395 = 104 \times 23 + 3$
 $= 2392 + 3 = 2395$ **verified**

5. $12 \mid 1239 \mid 103$

$$\begin{array}{r} - 12 \\ \hline 39 \\ - 36 \\ \hline 3 \end{array}$$

Check

$1239 = 103 \times 12 + 3$
 $= 1 \mid 2 \mid 3 \mid 6 + 3$
 $= 1236 + 3$
 $= 1239$ **verified**

6. $89 \mid 4150 \mid 46$

$$\begin{array}{r} - 356 \\ \hline 590 \\ - 534 \\ \hline 56 \end{array}$$

Check

$4150 = 46 \times 89 + 56$
 $= 4094 + 56 = 4150$ **verified**

□□

