

**CHAPTER-6 INTEGERS**

**I . CHOOSE THE CORRECT ANSWERS:**

1.  $(-3) + (-6)$  \_\_\_\_\_  $(-3) - (-6)$   
(a) <                      (b) >                      (c) =                      (d) None
2. The greatest negative integer is \_\_\_\_\_  
(a) -4                      (b) -1                      (c) 0                      (d) 1
3. Which of the following is in increasing order?  
(a) 0 , 1 , -1                      (b) -1 , -2 , -3                      (c) -1 , 0 , 1                      (d) -1 , 1 , -2
4. Sum of two negative integers is always  
(a) Positive                      (b) Negative                      (c) 0                      (d) 1
5. The number of integers between -2 and 2 is-  
(a) 5                      (b) 4                      (c) 3                      (d) 2

**II.ANSWER THE FOLLOWING QUESTIONS:**

6. Find the sum of the following:
- a)  $(-5) + (-6) + 5 + 7$
  - b)  $(45) + (-5) + (-56) + (-4)$
  - c)  $65 + (-436) + (-32)$
  - d)  $(-65) + (-12) + (-37)$
7. Using the number line, write the integer which is:
- a) 4 more than -1?
  - b) 3 less than -2
8. Use number line and add the following integers:
- a)  $(-5) + (-3)$
  - b)  $(6) + (-4) + (-1)$
9. Write opposite of each of the following:
- (a) A decrease of 9
  - (b) Spending Rs.500
10. Indicate using ‘ + ’ or ‘ - ’ sign
- (a) 10km below sea level
  - (b) loss of Rs.900
  - (c) deposit of Rs.234
11. What are the integers that come between -11 and -15? What is the greatest integer among them?

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12. Subtract the following:

- (a)  $-842$  from  $0$
- (b)  $-295$  from  $815$
- (c)  $14$  from  $-76$

13. Which number is to the right of the other on the number line?

- (a)  $-2, -6$       (b)  $5, -5$       (c)  $-5, 0$

**14.) Assertion (A)** – Zero is less than every positive integer

**Reason (R)** – Zero is neither a negative integer nor a positive integer.

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

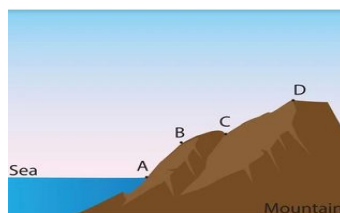
**15. Assertion (A):** An integer between  $-3$  and  $-1$  is  $2$

**Reason (R):** This collection of numbers is known as Integers

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

**III Case Study Questions:**

16. Four friends Roshan, Narun, Mohit and Shaun went for trekking to enjoy their summer vacations. Shaun reached the peak and found he was  $1500\text{m}$  above the sea level. All friends were at equal distance from each other.



1) Express the height where Shaun is (in integers)

- a)  $1500\text{ m}$       b)  $-1500\text{ m}$       c)  $750\text{m}$       d) None of these

2) As they climbed higher the temperature dropped  $15$  degree below zero. Express it in integers.

- a)  $150\text{ C}$       b)  $-15\text{ C}$       c)  $0\text{ C}$       d)  $300\text{ C}$

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3) What integer will represent the sea level?

- a) 1000m    b) 100m    c) 0m    d) 1m

4) What is the additive inverse of 1500?

- a) -1500    b) 1500    c) -57    d) -75

17. A child was given 5 quiz tests and the scores of his were recorded as follows: -3, +7, 0, -2, 6

(i) What is the lowest score the child got?

- (a) -3    (b) -2    (c) 0    (d) 6

(ii) What is the difference between the highest and the lowest score?

- (a) 4    (b) -4    (c) -10    (d) 10

(iii) Which integer lies to the extreme left on the number line?

- (a) -2    (b) 0    (c) -3    (d) 7

(iv) Find the sum of -3, +7, 0, -2, 6.

**CHAPTER-8 Decimals**

1) 40 mm = \_\_\_\_\_ cm

- (a) 0.04 cm    (b) 8 cm    (c) 0.4 cm    (d) 4 cm.

2) Rs. 25 and 8 paise can be expressed as

- (a) Rs. 25.08    (b) Rs. 25.80    (c) Rs. 25.008    d) Rs. 2580

3) 5km 7m is equal to

- a) 5.07km    b) 5.0007km    c) 5.007km    d) 5.7km

4) Which of the following decimal number is the smallest

- a) 0.81    b) 0.801    c) 1.08    d) 0.108

5)  $35 - 2.54 =$  \_\_\_\_\_.

- (a) 32.46    (b) 1.46    (c) 3.246    (d) 37.54

**Assertion Reason Questions**

**6) Assertion (A) –  $5\text{m} = 500\text{mm}$**

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**Reason (R)** – Length is a measure of how long an object is or the distance between two points.

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

**7) Assertion:** Expressing 735 m into km, we get 0.735 km.

**Reason:** 1 cm = 0.01 m.

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

8) Find the Sum:-

- a)  $0.009 + 6.24$
- b)  $42.075 + 0.33 + 0.006$
- c)  $135.47 + 62.7 + 49$

9) Subtract :

- a) 5.032 km from 9.63
- b) Rs.23.75 from Rs.54.50
- c) 0.712 kg from 4.308 kg

10) Find the value of:-

- a)  $19.6 - 8.745$
- b)  $36.9 - 12.752$

11) Sophia had 10 meters 80 centimeters of cloth. She cut 3 meters 60 centimeters to make a dress. How much cloth is left with Sophia?

12) Neha's mother gave her Rs.12.30 and her father gave her Rs.17.50. Find the total amount Neha received from her parents.

13) Raj bought a pineapple weighing 2 kg 800 g. He gave 1 kg 500 g to his friend. How much pineapple is left with Raj?

**Case Study Questions**

14) Vegetables come in great colours and flavours, but in what inside lies their real beauty. The vegetables constitute important sources of several nutrients, such as potassium, fiber, vitamin A and vitamin C. Naturally, the majority of vegetables have little calories and fat... Some vegetables have higher carbohydrate levels and are often referred to as starchy vegetables. Usually, these are roots and tubers like pipes and yams. Their energy of the starchy vegetables is increased due to their content of carbohydrates.

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Akash bought vegetables weighing 10 kg. Out of this 3kg 500g is onions, 2kg 75g are tomatoes and the rest is potatoes.

Based on the above information, answer the following questions:

(1) Write the weight of onions in grams.

(ii) Write the weight of tomatoes in grams.

(iii) What is the weight of potatoes?



15) Sarita travels every day from her home to her office. She covers a total distance of 18 km 75 m daily. Out of this, she travels 7 km 150 m by bus. The remaining distance is traveled by auto. Sarita needs to calculate how much distance she covers by auto each day.

(i) Calculate the total distance Sarita travels in Kilometres

(ii) Calculate the distance Sarita travels by bus in Kilometres.

(iii) Find the distance Sarita travels by auto in meters.



**CHAPTER - 9 DATA HANDLING**


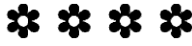
**I. Choose the Correct Answer**

1) The data can be arranged in tabular form using \_\_\_\_\_.

a) Tally marks      B) Bar graph c) Pictograph      d) Pictures

2) A pictograph represents the data in the form of \_\_\_\_\_.

a) Vertical bar      b) Horizontal Bar c) Pictures      d) Words

3) If a symbol  represents 5 flowers in a basket, then  stands for \_\_\_\_\_ Flowers.

a) 30      b) 50      c) 20      d) 5

4) What is the term used for the arrangement of data?

a) Raw data    b) Organization of Data    c) Pictograph d) Bar graph

5) The tally mark  represents the number \_\_\_\_\_.

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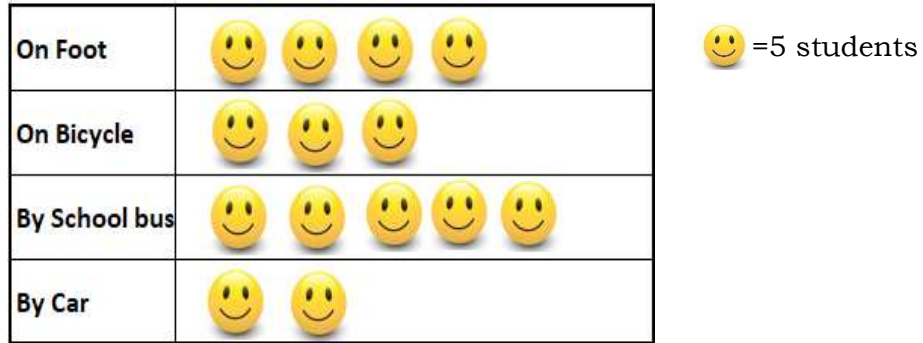
**CLASS: VI**

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- a) 8      b) 10      c) 7      d) 9

**II. Answer the following questions**

6) The following pictograph shows the number of students using various mode of transportation for going to their school.



Answer the following questions:

- a) The number of students who go to school on foot are\_\_\_\_\_ .  
 b) The number of students who go to school by school bus\_\_\_\_\_ .  
 7) Represent the data in the table below using tally marks:

Popular dishes	Number of plates
Idli	13
Samosa	20
Dosa	26
Sandwich	21
Shawarma	19

8) Following are the marks of the students obtained in English. Arrange these marks in table using tally marks.

7	7	9	9	7	6	5	3	4	9	4	2
7	2	5	8	6	8	2	2	6	6	6	5
3	6	3	9	6	6	7	7	4	7	2	6

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**III. Answer the following questions**

9) Following sports are played by 30 students of class 6:

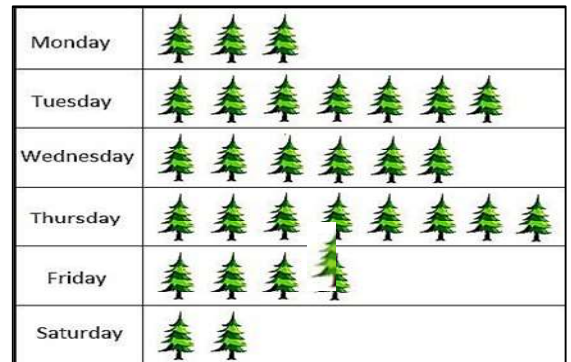
Cricket, Tennis, Football, Cricket, Hockey, Tennis, Volley ball, Football, Tennis, Cricket, Volleyball, Football, Tennis, Hockey, Volley ball, Cricket, Football, Tennis, Volley ball, Football, Tennis, Cricket, Hockey, Football, Volley ball, Football, Cricket, Hockey, Football, Cricket.

- a) Arrange the sports names using Tally marks.
- b) Which sport is played by most of the students.

10) Different numbers of plants were planted by the students of a school on six days of a week, this is shown in the following pictograph.






 = 10 plants

- a) Find the total number of plants planted on Monday and Tuesday.
- b) On which day were the least number of plants planted.



11) The following tally marks table shows the daily wages of some workers:

- a) How many workers work for below ₹ 400 daily wages?
- b) How many workers work for above ₹ 400 daily wages?
- c) What is the total number of workers?

Daily Wages (in Rs.)	Number of workers
250	
300	
450	
500	
660	

12) A truck was carrying different colours of Football for sports event.

Red, Green, Blue, Yellow, Orange, White, Green, Red, White, Blue, Red, White, Green, Red, Orange, Yellow, Green, Red, White, Green, Blue, Yellow, Green, Orange White, Yellow, Green, White, Blue, Orange, Yellow, White, Yellow, White.

- a) Arrange the football by colors in tally marks.
- b) Which colour of football is maximum in number?



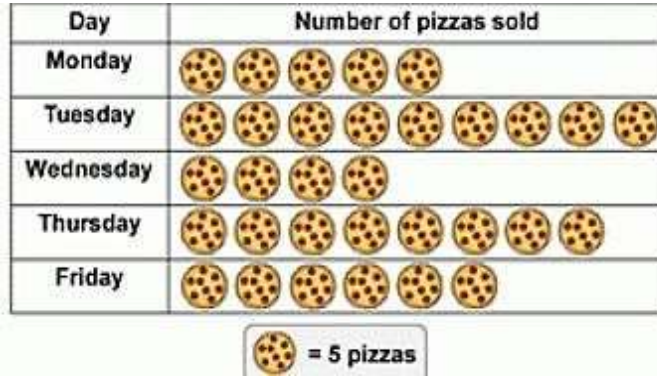
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**IV. Answer the following questions**

13) Following pictograph shows the number of pizzas sold over five days.



- a) On which day only 25 pizzas were sold?
- b) How many pizzas were sold on Monday and Tuesday?
- c) Find the total numbers of Pizzas sold in five days?
- d) How many more pizza were sold on Thursday compared to Wednesday?

14) The marks (out of 10) obtained by class 6 students in a Mathematics test are listed as below:

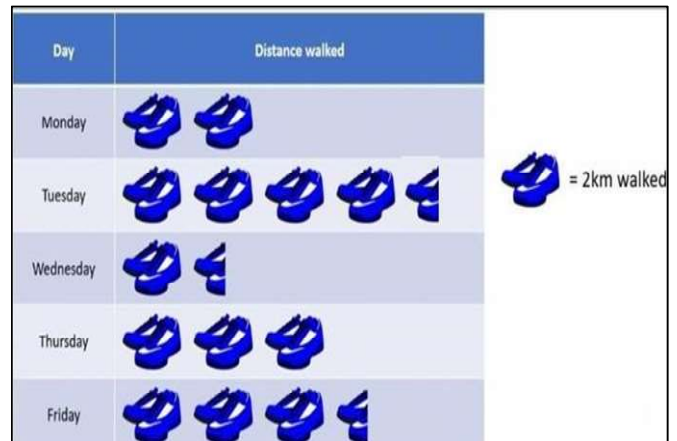
8 , 2 , 6 , 5 , 5 , 5 , 8 , 6 , 9 , 7 , 8 , 6 , 5 , 8 , 3 , 7 , 8 , 10 , 10 , 3 , 4 , 8 , 7 , 8 , 9 , 2 ,  
 7 , 7 , 8 , 7 , 6 , 5 , 4 , 7 , 8 , 9 , 8 , 6 , 9 , 8

- a) Make a table and enter the data using tally marks.
- b) Calculate the number of students who obtained marks more than or equal to 5.
- c) Calculate the number of students who scored less than 5.

**V. Case Study**

15) Radha tracked the distance she walked for 5 days. The results are displayed in the pictograph below:

- a) Work out the distance she walked on Tuesday.
- b) Radha aimed to walk at least 6km per day. On which days did she reach this goal?
- c) On which days did Radha walk less than 6 km.?
- d) Find the total distance Radha covered in 5 days.



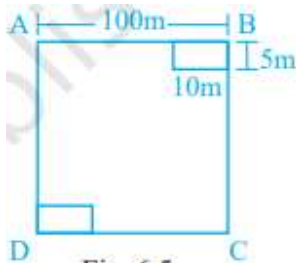


**CHAPTER – 10 MENSURATION****Choose the correct answer:**

1. The side of a square is 10cm. How many times will the new perimeter become if the side of the square is doubled?

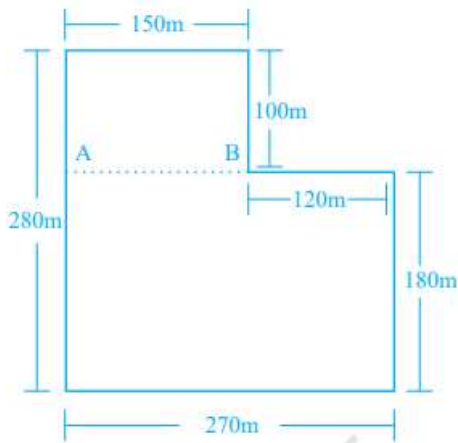
- a) 6 times
- b) 2 times
- c) 4 times
- d) 8 times

2. From the given figure, square shaped park ABCD of side 100m has two equal rectangular flower beds each of size 10m × 5m. Length of the boundary of the remaining park is \_\_\_\_\_



- a) 400m
- b) 340m
- c) 360m
- d) 460m

3. Total cost of fencing the park shown in Figure is Rs 55000. Find the cost of fencing per m



- a) Rs 100
- b) Rs 25
- c) Rs 150
- d) Rs 50

4. Length and breadth of a rectangular table-top are 76 cm and 24 cm respectively. Find its perimeter.

- a) 200cm
- b) 100cm
- c) 1724 cm
- d) 225 cm

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5. In a rectangle, the length is halved and breadth is doubled. If its new dimensions are 24cm and 18cm, then find the old perimeter.

- a) 124 cm
- b) 108 cm
- c) 114 cm
- d) 104 cm

**Assertion Reason Questions:**

6. **Assertion (A)** – Area of a rectangle = Length + Breadth

**Reason (R)** – The amount of surface enclosed by a closed figure is called its area

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

7. **Assertion (A)** – An athlete takes 10 rounds of a rectangular park, 40 m long and 30 m wide. The total distance covered by him is 1400m

**Reason (R)** – The amount of surface enclosed by a closed figure is called its area

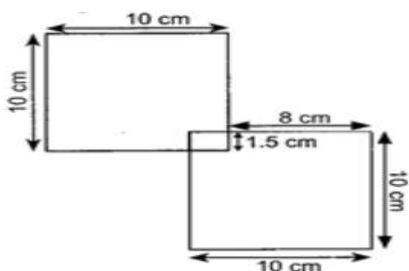
- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

**Answer the following questions:**

8. The area of a rectangular field is 1600sqm. If the length of the field is 80m, find the perimeter of the field.

9. Find the number of envelopes that can be made out of a sheet of paper 450cm by 200cm, if each envelope requires a piece of paper of size 40cm by 25cm.

10. Find the perimeter of the given figure



11. A wire is cut into several small pieces. Each of the small pieces is bent into shape of a square of side 3cm. If the total area of small squares is 108 sq.cm, then what is the length of the wire?

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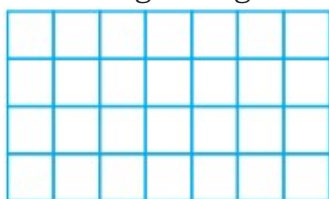
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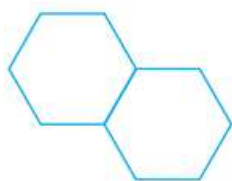
12. Sonu walks around a square park once and covers 800m. What will be the area of this park?
13. An equilateral triangle is formed on a side of square, whose one side is 8cm. Find the perimeter of the shape so formed.

**Case study Questions:**

14. Anika built a rectangular wall for her kitchen and covered it with square tiles of 15cm length as shown in the given figure.



- a) Find the perimeter of each square tile.
- b) Find the length and breadth of the kitchen wall
- c) Find the area of the wall.
15. Two regular Hexagons of perimeter 48cm each are joined as shown in the figure.
- a) Give the formula to find the perimeter of a hexagon.
- b) Find the length of each side of the hexagon
- c) What is the perimeter of the new figure?



**CHAPTER-11 ALGEBRA**

**I. Choose the correct option.**

- 1) The rule which gives the number of matchsticks required to make the matchstick pattern W.
- a)  $2n$       b)  $3n$       c)  $4n$       d)  $5n$
- 2) Which of the following is an equation in variable?
- a)  $5 > 4$       b)  $2 < 3x$       c)  $x+1= 3$       d)  $7+8 = 8+7$ .
- 3) If Ria's present age is  $x$  years, what was her age in years, 10 years back?
- a)  $x-10$       b)  $10-x$       c)  $x+10$       d)  $10x$ .
- 4) If the number of students in a row is  $n$ , and there are 5 rows, what is the total number of students?
- a)  $n+5$       b)  $5n$       c)  $n-5$       d)  $n \div 5$ .

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5) If the length of a regular hexagon is  $m$ , the perimeter of the regular hexagon is:

- a)  $6m$       b)  $6 + m$       c)  $m \div 6$       d)  $m^2$ .

**II. Answer the following questions.**

6) A pen costs ₹ $p$ , and a notebook cost ₹ $n$ . If Raju buys 3 pens and 2 notebooks, what will be the total cost?

7) Reena has  $x$  chocolates. She gives 5 chocolates to her friend and then buys 3 more chocolates. How many chocolates does she have now?

8) The cost of a movie ticket is ₹ $t$  and the cost of popcorn is ₹ $p$ . If a family buys 4 tickets and 2 packets of popcorn, write an expression for the total cost.

9) A book costs ₹ $b$ , and a bag cost ₹ $k$ . If the cost of the bag is 4 times the cost of the book, write an expression for the cost of the bag.

**III. Assertion and Reasoning questions.**

10) **Assertion (A):** The variable and constants of algebraic expression  $3x+5$  is 3,5 and  $x$  respectively.

**Reason (R) :** Variables are the alphabets used to represent unknown numbers and constants have the fixed value.

- a) Both A and R are true and R is the correct explanation of A .  
b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.

11) **Assertion (A):** If the side of a square is  $s$ , the expression  $4s$  represents area of the square.

**Reason (R):** The formula for the area of square is side  $\times$  side.

- a) Both A and R are true and R is the correct explanation of A .  
b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.

12) **Assertion (A):** The expression  $5n$  represents the total cost of  $n$  notebooks if the cost of one notebook is 5 rupees.

**Reason (R):** Multiplication is used to find the total when the same value is repeated multiple times.

- a) Both A and R are true and R is the correct explanation of A .  
b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.

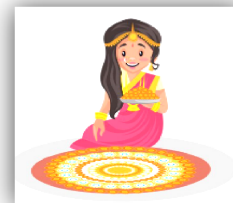
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**IV. Case study-based questions.**

13) In a school competition, students are making rangoli designs. Each rangoli has  $n$  circles and  $m$  stars. A total of 5 rangolis are created.



1. Each rangoli has  $n$  circles. How many circles are there in 5 rangolis?

- a)  $n+5$     b)  $n-5$     c)  $5n$     d)  $n \div 5$

2. Each rangoli has  $m$  stars. How many stars are there in 5 rangolis?

- a)  $5m$     b)  $m \div 5$     c)  $m+5$     d)  $m-5$

3. If each rangoli contains both  $n$  circles and  $m$  stars, how many shapes are there in total for 5 rangolis?

- a)  $5mn$     b)  $5(n+m)$     c)  $5+m+n$     d)  $5(n-m)$ .

14) A farmer has mangoes in baskets. Each basket contains  $m$  mangoes. There are 8 baskets in total, but he sells 2 baskets at the market.



1. How many mangoes are there in all 8 baskets?

- a)  $8m$     b)  $8+m$     c)  $8-m$     d)  $m \div 8$

2. How many mangoes are left after selling 2 baskets?

- a)  $8-2m$     b)  $8m-2$     c)  $8m-2m$     d)  $8m+2m$ .

3. If the price of one basket of mangoes is ₹50, how much does the farmer earn by selling 2 baskets?

- a) ₹100    b) ₹ 70    c) ₹ 400    d) ₹ 300.

15) A group of cadets is arranged in rows and columns for a parade. Each row has  $r$  cadets, and there are  $c$  rows.

1. How many cadets are there in total?

- a)  $r \times c$     b)  $r + c$     c)  $r - c$     d)  $r \div c$ .

2. If 5 cadets leave the parade, how many cadets remain?

- a)  $r-5$     b)  $c-5$     c)  $5r$     d)  $(r \times c)-5$ .

3. If each cadet is given ₹ $p$ , how much money is distributed to all cadets?

- a)  $r \times p$     b)  $c \times p$     c)  $p \times (r \times c)$     d)  $p + (r \times c)$ .



**CHAPTER-12 RATIO AND PROPORTION**

(1) Two quantities can be compared only if they are in

- (a) Same unit    (b) different unit    (c) same number    (d) none of these

(2) What is the ratio of 40 minutes to 2 hours?

- (a) 2:3    (b) 1:3    (c) 4:5    (d) 4:2

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- (3) There are 20 teachers in a school of 500 students. The ratio of the number of the teachers to the total number of students is,  
(a) 1:20                      (b) 1:50                      (c) 1:25                      (d) 25:1
- (4) Which of the following are in proportion?  
(a) 2, 3, 20, 30      (b) 3, 4, 15, 18      (c) 1, 3, 11, 22      (d) 2, 5, 40, 80
- (5) The cost of 1 dozen pens is ₹24 .Find the cost of 30 pens  
(a) ₹ 40                      (b) ₹45                      (c) ₹ 30                      (d) ₹ 60
- (6) 150 kg of oil can be filled in 10 containers. To fill 750 kg of oil, how many containers will be required?  
(a) 10                      (b) 20                      (c) 40                      (d) 50
- (7) Which of the following is true?  
(a) 12:18 :: 28:12      (b) 16:48 :: 25:75      (c) 40:60 :: 30:40      (d) 20:100 :: 30:120
- (8) **Assertion :** 6:9 is equivalent to 2:3

**Reason :** We can get equivalent ratios by multiplying or dividing the numerator and denominator by the same number.

- (a) Both A and R are true and R is the correct explanation of A  
(b) Both A and R are true but R is not the correct explanation of A  
(c) A is true but R is false  
(d) A is false but R is true

- (9) **Assertion :** 15:40 :: 10:30

**Reason:** If two ratios are equal ,we say that they are in proportion and use the symbol **:: or =** to equate the two ratios.

- (a) Both A and R are true and R is the correct explanation of A  
(b) Both A and R are true but R is not the correct explanation of A  
(c) A is true but R is false  
(d) A is false but R is true

**ANSWER THE FOLLOWING**

- (10) Divide ₹72 in the ratio 3:5 between Ravi and Rahul?
- (11) Determine if the following ratios form a proportion .Also write their middle terms and extreme terms  
75 cm : 2m and 6kg : 16 kg

**INTERNATIONAL INDIAN SCHOOL, DAMMAM**  
**MIDDLE SECTION (BMS)**  
**ANNUAL - WORKSHEET 2024-25**

**CLASS: VI**

**SUBJECT: MATHEMATICS**

(12) Cost of 6 kg of flour is ₹36 .

- (a) What will be the cost of 9 kg of flour ?
- (b) What quantity of flour can be purchased in ₹144 ?

(13) Raju made 32 runs in 4 overs and Balu made 54 runs in 6 overs . Who made more runs per over ?

**CASE STUDY QUESTIONS**

(14) Present age of Harikishan is 60 years. Present age of Mohan is 30 years.  
Find the ratio of:

- (a) Present age of Harikishan to the present age of Mohan.
- (b) Age of Harikishan to the age of Mohan 10 years ago was?
- (c) Age of Harikishan to the age of Mohan, when Harikishan was 48 years old?



(15) In a library, the ratio of the number of fiction books to non-fiction books is 4:7. If there are 88 books in total



Answer the following questions:

- (a) How many fiction books are there in the library?
- (b) How many non-fiction books are there in the library?
- (c) If the library adds 16 more fiction books, what will be the new ratio of fiction to non-fiction books?

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