

**CLASS VI – MATHEMATICS - CHAPTER 12**

**RATIO AND PROPORTION**

Name:

Date:

- 01.** In a class, there are 20 boys and 40 girls. What is the ratio of the number of boys to the number of girls?  
(a). 1:2                      (b). 2:1                      (c). 1:3                      (d). 1:4
- 02.** Length of a room is 30 m and its breadth is 20 m. Find the ratio of length of the room to the breadth of the room.  
(a). 2:3                      (b). 3:2                      (c). 3:5                      (d). 2:5
- 03.** If the cost of 6 cans of juice is Rs 210, then what will be the cost of 4 cans of juice?  
(a). Rs 100                      (b). Rs 120                      (c). Rs 140                      (d). Rs 160
- 04.** A car travels 90 km in  $2\frac{1}{2}$  hours. Find the distance covered in 3 hours with the same speed.  
(a). 56 km                      (b). 72 km                      (c). 96 km                      (d). 108 km
- 05.** In a school, there were 73 holidays in one year. What is the ratio of the number of holidays to the number of days in one year?  
(a). 1:5                      (b). 5:1                      (c). 1:4                      (d). 4:1
- 06.** Ravi walks 6 km in an hour while Roshan walks 4 km in an hour. What is the ratio of the distance covered by Ravi to the distance covered by Roshan?  
(a). 2:3                      (b). 3:2                      (c). 1:2                      (d). 3:1
- 07.** 24 girls & 16 boys are going for a picnic. Find the ratio of the number of girls to the no. of boys.  
(a). 2:3                      (b). 3:2                      (c). 3:5                      (d). 2:5
- 08.** A motorbike travels 220 km in 5 litres of petrol. How much distance will it cover in 1.5 litres of petrol?  
(a). 44 km                      (b). 55 km                      (c). 66 km                      (d). 77 km
- 09.** A car travels 90 km in  $2\frac{1}{2}$  hours. Find the distance covered in 2 hours with the same speed.  
(a). 62 km                      (b). 66 km                      (c). 68 km                      (d). 72 km
- 10.** Length of a pencil is 18 cm and its diameter is 8 mm. What is the ratio of the diameter of the pencil to that of its length?  
(a). 2:45                      (b). 45:2                      (c). 1:45                      (d). 45:1
- 11.** Cost of a toffee is 50 paise and cost of a chocolate is Rs 10. Find the ratio of the cost of a toffee to the cost of a chocolate.  
(a). 1:20                      (b). 20:1                      (c). 1:50                      (d). 50:1
- 12.** Sheena has 2 marbles and her friend Shabnam has 3 marbles. Find the ratio of marbles that Sheena and Shabnam have.  
(a). 3:2                      (b). 2:3                      (c). 2:5                      (d). 3:5

## D CUBE AURA

- 13.** If the cost of a dozen soaps is Rs 153.60, what will be the cost of 15 such soaps?  
(a). Rs 150                      (b). Rs 180                      (c). Rs 192                      (d). Rs 200
- 14.** A car travels 90km in  $2\frac{1}{2}$  hours. How much time is required to cover 30 km with the same speed?  
(a). 20 minutes                      (b). 30 minutes                      (c). 40 minutes                      (d). 50 minutes
- 15.** Ravi and Rani started a business and invested money in the ratio 2 : 3. After one year the total profit was Rs 40,000. What is the share of Ravi in profit?  
(a). Rs 16000                      (b). Rs 24000                      (c). Rs 15000                      (d). Rs 20000
- 16.** Isha's weight is 25 kg and her father's weight is 75 kg. What is the ratio of weight of Isha to weight of her father?  
(a). 1:3                      (b). 3:1                      (c). 1:2                      (d). 2:1
- 17.** Length of a house lizard is 20 cm and the length of a crocodile is 4 m. What is the ratio of length of lizard to crocodile?  
(a). 20:1                      (b). 1:20                      (c). 5:1                      (d). 1:5
- 18.** Length and breadth of a rectangular field are 50 m and 15 m respectively. Find the ratio of the length to the breadth of the field.  
(a). 3:10                      (b). 1:3                      (c). 10:3                      (d). 3:1
- 19.** There are 45 persons working in an office. If the number of females is 25 and the remaining are males, find the ratio of the number of females to number of males.  
(a). 5:9                      (b). 4:5                      (c). 9:5                      (d). 5:4
- 20.** Ravi and Rani started a business and invested money in the ratio 2 : 3. After one year the total profit was Rs 40,000. What is the share of Ravi in profit?  
(a). Rs 16000                      (b). Rs 24000                      (c). Rs 15000                      (d). Rs 20000

**Q01. Fill in the blanks:**

- (a). If two \_\_\_\_\_ are equal, we say that they are in proportion.
- (b). The value of the variable in an equation which satisfies the equation is called a \_\_\_\_\_ to the equation.
- (c). If two ratios are \_\_\_\_\_, we say that they are in proportion.
- (d). If two ratios are equal, we say that they are in \_\_\_\_\_.
- (e). If two ratios are equal, we say that they are in \_\_\_\_\_.
- (f). First and fourth terms are known as \_\_\_\_\_ in proportion.

**Q02.** There are 45 persons working in an office. If the number of females is 25 and the remaining are males, find the ratio of:

- (a). The number of females to number of males.  
(b). The number of males to number of females.

**Q03.** Find the ratio of the following:

- (a). 81 to 108                      (b). 30 minutes to 1.5 hours

## D CUBE AURA

**Q04.** Divide 20 pens between Sheela and Sangeeta in the ratio of 3:2.

**Q05.** There are 20 girls and 15 boys in a class.

(a). What is the ratio of number of girls to the number of boys?

(b). What is the ratio of number of girls to the total number of students in the class?

**Q06.** Find the ratio of the following:

(a). 30 minutes to 45 minutes      (b). 55 paise to Re 1

**Q07.** Mother wants to divide Rs 36 between her daughters Shreya and Bhoomika in the ratio of their ages. If age of Shreya is 15 years and age of Bhoomika is 12 years, find how much Shreya and Bhoomika will get.

**Q08.** Out of 30 students in a class, 6 like football, 12 like cricket and remaining like tennis. Find the ratio of:

(a). Number of students liking football to number of students liking tennis.

(b). Number of students liking cricket to total number of students.

**Q09.** Find the ratio of the following:

(a). 33 km to 121 km      (b). 40 cm to 1.5 m

**Q10.** Present age of father is 42 years and that of his son is 14 years. Find the ratio of age of father after 10 years to the age of son after 10 years.

**Q11.** If the ratio of distance of Maria's home to the distance of Karan's home from school is 1 : 2, then who lives nearer to the school?

**Q12.** Divide Rs 60 in the ratio 1 : 2 between Kirti and Kamal.

**Q13.** Check whether the given ratios are equal, i.e. they are in proportion. If yes, then write them in the proper form.

(a). 1:5 and 3:15      (b). 2:9 and 18:81

**Q14.** Ratio of distance of the school from Manu's home to the distance of the school from Sonu's home is 3:1. Who lives nearer to the school?

**Q15.** Divide 20 pens between Sheena and Meena in the ratio of 3:2.

**Q16.** Check whether the given ratios are equal, i.e. they are in proportion. If yes, then write them in the proper form.

(a). 4:12 and 9:27      (b). Rs 10 to Rs 15 and 4 to 6