Mathematics

(Chapter – 12) (Ratio and Proportion) (Practice Test 5)

Class VI

Time: 1 Hour 15 Minutes   M. M.: 25

General Instructions:
➤ This question paper contains four sections: A, B, C and D. Each part is compulsory.
➤ Section A has 5 MCQ of one mark each.
➤ Section B has 3 questions of two marks each.
➤ Section C has 3 questions of three marks each.
➤ Section D has 2 questions of five marks each, attempt any 1 out of 2.
➤ There is no negative marking.

Section – A

1. The cost of a pen is ₹10. The cost of a pencil 1 is ₹2. How many times of the cost of a pencil is the cost of a pen?
(A) 5 times   (B) 2 times
(C) 10 times   (D) none of these

2. The ratio 40 cm to 1 m is
(A) 2:5   (B) 3:5   (C) 4:5   (D) 5:2

3. Which of the following ratios is equivalent to 2:3?
(A) 4:8   (B) 4:9   (C) 6:9   (D) 6:12

4. There are 25 boys and 25 girls in a class. The ratio of the number of boys to the total number of students is
(A) 1:2   (B) 1 : 3   (C) 2:3   (D) 3:2

5. Which of the following ratios is not equivalent to 10:5?
(A) 1:2   (B) 2:1   (C) 20:10   (D) 30:15

Section – B

6. There are 30 boys and 20 girls in a class. The ratio of the number of girls to the number of boys is:

7. The fare for 5 tickets from Kosi Kalan to Mathura is ₹150. The fare for 3 tickets Is?

8. Find the ratio of the following: 63 to 45.

Section – C

9. If the cost of 7 m of cloth is ₹1470, find the cost of 5 m of cloth.

10. Are the following statements true? (a) 40 persons: 200 persons = ₹15 : ₹75

11. Find the ratio of the following:
(a) 81 to 108   (b) 98 to 63

Section-D

12. Distance travelled by Hamid and Akhtar in an hour are 9 km and 12 km. Find the ratio of speed of Hamid to the speed of Akhtar)

13. 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?

Mathematics

Answers

Section – A

1. 5 times
2. 2 : 5
3. 6 : 9
4. 1 : 2
5. 2 : 1

Section – B

6. 2 : 3
7. 90
8. 7 : 5

Section-C

9. 1050
(Hint: Cost of 7 m cloth = ₹1470
Cost of 1 m cloth = 1470/7 = ₹210
So, cost of 5 cloth = 210 × 5 = 1050)

10. True
(Hint: 40 persons : 200 persons = ₹15 : ₹75
40 / 200 = 1 / 5
15 / 75 = 1 / 5
Hence, True)

11. 3/4, 14/9
(Hint: 81/108 = (3 × 3 × 3 × 3) / (2 × 2 × 3 × 3 × 3) = 3 / 4
(b) 98/63 = (14 × 7) / (9 × 7) = 14 / 9

Section-D

12. 3/4
(Hint: We know that the speed of a certain object is the distance travelled by that object in an hour
Distance travelled by Hamid in one hour = 9 km
Distance travelled by Akhtar in one hour = 12 km
Speed of Hamid = 9 km/hr
Speed of Akhtar = 12 km/hr
Ratio of speed of Hamid to the speed of Akhtar = 9/12 = 3/4)

13. 4/3, 4/7
(Hint: Number of girls = 20 girls
Number of boys = 15 boys
Total number of students = 20 + 15 = 35
(a) Ratio of number of girls to number of boys = 20/15 = 4/3
(b) Ratio of number of girls to total number of students = 20/35 = 4/7)