Mathematics

(Chapter – 12) (Ratio and Proportion) (Practice Test 4)

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. Which of the following is true?
(A) 15 : 40 , 10 : 30   (B) 40 : 60 , 30 : 50   (C) 16 : 48 , 25 : 75   (D) none of these.

2. The cost of 5 kg of tomatoes is ₹100. The cost of 2 kg of tomatoes is
(A) 40   (B) 35   (C) 45   (D) 52

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

4. Which of the following are in proportion?
(A) 1:2, 100: 20   (B) 2: 3, 20: 30   (C) 5:3, 70: 30   (D) 30:2, 3: 20

5. The cost of 3 envelopes is 150. The cost of 10 envelopes is
(A) 50   (B) 100   (C) 200   (D) 500

Section – B

6. There are 80 pear and 30 juice bottles in a class. What is the ratio of the number of pears to the number of juice bottle?

7. The fare for 5 tickets from Nanital to Mathura is ₹500. What is the fare for 3 tickets?

8. Find the ratio of the following: 27: 18

Section – C

9. The number of boys and girls in a school are 1168 and 1095 respectively. Express the ratio of the number of boys to that of the girls in the simplest form.

10. Shaina pays ₹15000 as rent for 3 months. How much does she have to pay for a whole year, if the rent per month remains same?

11. The weight of 72 books is 9 kg. What is the weight of 40 such books?

Section-D

12. Present age of father is 42 years and that of his son is 14 years. Find the ratio of
(a) Present age of father to the present age of son
(b) Age of the father to the age of son, when son was 12 years old.

13. Mother wants to divide ₹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.

Section – A

1. 16: 48, 25: 75
2. 40
3. 6: 9
4. 2: 3, 20: 30
5. 500

Section – B

6. 8: 3
7. 300
8. 3: 2

Section-C

9. 16: 15
(Hint: No. of boys = 1168
No. of girls = 1095. So, the ratio of the number of boys to that of the girls = 1168: 1095
Dividing the two terms by HCF 73, the ratio of number of boys to that of the girls = 16: 15)

10. 60000
(Hint: Rent paid by Shaina in 3 months = ₹15000
Rent for 1 month = 15000 / 3 = ₹ 5000
So, rent for 12 months i.e., 1 year = 5000 × 12 = 60,000)

11. 5 kg
(Hint: Weight of 72 books = 9 kg
Weight of 1 book = 9 / 72 = 1 / 8 kg
So, weight of 40 books = (1 / 8) × 40 = 5 kg)

Section-D

12. (a) 40 years
(Hint: Present age of father = 42 years
Present age of son = 14 years
Required ratio 42 / 14 = 3/1
(b) The son was 12 years old 2 years ago. So, the age of father 2 years ago will be
= 42 – 2 = 40 years
13. 1
(Hint: Ratio of ages = 15 / 12 = 5 / 4
Hence, mother wants to divide ₹ 36 in the ratio of 5: 4
Terms of 5: 4 are 5 and 4
Sum of these terms = 5 + 4 = 9
Here Shreya will get 5 / 9 of total money and Sangeeta will get 4 / 9 of total money
The amount Shreya get = 5 / 9 × 36 = 20
The amount Sangeeta get = 4 / 9 × 36 = 16)