

Mathematics

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(Chapter - 12) (Ratio and Proportion) (Practice Test 1)

(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. What is the simplest form of the ratio 144: 28?
(A) 10:5 (B) 1: 4 (C) 5:5 (D) 36 : 7
2. If 12, 14, 9 and x are in the proportion find the value of x?
(A) 10.5 (B) 21 (C) 10 (D) 4.6
3. The cost of 10 notebooks is ₹ 100. The cost of 1 notebook is
(A) 10 (B) 100 (C) 1000 (D) 10000
4. The mean proportion of 4 and 16 is:
(A) 8 (B) 0 (C) -4 (D) 1
5. Find the value of the expression $-x + 2$ for $x = -2$
(A) 2 (B) 6 (C) 4 (D) 3

Section - B

6. Divide 20 pens btw Sheela and Rahul are the ratio of 3: 2?
7. The cost of 8 almirahs is ₹8000. What is the cost of 1 almirah?
8. Find the ratio of the following: 30 minutes to 45 minutes

Section - C

9. Find the equivalent ratio of 75:100
10. The weight of 72 books is 9 kg. What is the weight of 40 such books?
11. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by the truck to cover a distance of 1650 km?

Section - D

12. If $4 : x : 36$, then find the value of x.
13. Anish made 42 runs in 6 overs and Anup made 63 runs in 7 overs. Who made more runs per over?

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Answers

Section - A

1. 36: 7
2. 10.5
3. 10
4. 8
5. 4

Section - B

6. Sheela 12 and Rahul 8
7. 1000
8. $\frac{2}{3}$

Section-C

9. $\frac{3}{4}$

(Hint: $= 75: 100 = \frac{75}{100} \div \frac{5}{5} = \frac{15}{20} = \frac{15}{20} \div \frac{5}{5} = \frac{3}{4}$)

10. 5kg

(Hint: Weight of 72 books = 9 kg)

Weight of 1 book = $\frac{9}{72} = \frac{1}{8}$ kg. So, weight of 40 books = $(\frac{1}{8}) \times 40 = 5$ kg)

11. 300 litre

(Hint: Diesel required for 594 km = 108 litres)

Diesel required for 1 km = $108 / 594 = 2 / 11$ litre

So, diesel required for 1650 km = $(\frac{2}{11}) \times 1650 = 300$ litres

∴ Diesel required by the truck to cover a distance of 1650 km is 300 liters)

Section-D

12. 12

(Hint: Product of means = Product of extremes)

$$x \times x = 4 \times 36$$

$$x^2 = 144$$

$$x = 12$$

13. 9

(Hint: Runs made by Anish in 6 overs = 42)

Runs made by Anish in 1 over = $42/6 = 7$

Runs made by Anup in 7 overs = 63

Runs made by Anup in 1 over = $63/7 = 9$)

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