

Mathematics

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(Chapter - 12) (Ratio and Proportion) (Practice Test 2)

(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

- If a, b, c are in proportion, then
(A) $a : b : c$ (B) $a : b : c : a$ (C) both of these (D) none of these
- If 4, a, a, 36 are in proportion, then $a =$
(A) 12 (B) 24 (C) 8 (D) 4
- Which of the following ratios is equivalent to 2:3?
(A) 4:8 (B) 4:9 (C) 6:9 (D) 6:12.
- The first, second and fourth terms of a proportion are 16, 24 and 54 respectively. The third term is
(A) 36 (B) 12 (C) 24 (D) 32.
- If $57 : x = 51 : 85$, then the value of x is
(A) 96 (B) 95 (C) 74 (D) none

Section - B

- Anish made 42 runs in 6 overs and Anup made 63 runs in 7 overs. Who made more runs per over?
- Cost of 4 dozen bananas is ₹180. How many bananas can be purchased for ₹90?
- Find the ratio 30 minutes to 45 min?

Section - C

- Ekta earns ₹3000 in 10 days. How much will she earn in 30 days?
- Determine if the following ratios form a proportion. Also, write the middle terms and extreme terms where the ratios form a proportion.
25 cm: 1 m and ₹40: ₹160
- If 30 oranges cost Rs.120. What is the cost of 50 oranges?

Section-D

- If it has rained 276 mm in the last 3 days, how many cm of rain will fall in one full week (7 days)? Assume that the rain continues to fall at the same rate.
- Cost of 5 kg of wheat is ₹91.50.
(a) What will be the cost of 8 kg of wheat?
(b) What quantity of wheat can be purchased in 183?

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Answers

Section - A

1. a: b: b: c
2. 12
3. 6: 9
4. 36
5. 95

Section - B

6. 9, Anup made 9 runs per over
7. 2 dozens
8. 2: 3

Section-C

9. 9000

(Hint: Money earned by Ekta in 10 days = ₹3000)

Money earned in one day by her = $3000 / 10 = ₹300$

So, money earned by her in 30 days = $300 \times 30 = ₹9000$)

10. True

(Hint: 25 cm: 1 m and 40: 160

$\Rightarrow 25 \text{ cm} = 25 / 100 \text{ m} = 0.25 \text{ m}$

$\Rightarrow 0.25/1 = 1/4$

$\Rightarrow 40 / 160 = 1 / 4$

Yes, these are in a proportion

Middle terms are 1 m, ₹40 and Extreme terms are 25 cm, 160)

11. 200

(Hint: Cost of 30 oranges = Rs.120

Now, cost of one orange = $120/30 = ₹4$

Cost of 50 oranges = cost of one orange \times cost of fifty oranges = $4 \times 50 = ₹200$)

Section-D

12. 64. 4 cm

(Hint: Measure of rain in 3 days = 276 mm

Measure of rain in one day = $276 / 3 = 92 \text{ mm}$

So, measure of rain in one-week i.e. 7 days = $92 \times 7 = 644 \text{ mm} = 644/10 = 64.4 \text{ cm}$)

13. 10

(Hint: (a) Cost of 5 kg wheat = ₹91.50.

Cost of 1 kg wheat = $91.50/5 = ₹18.3$

So, cost of 8 kg wheat = $18.3 \times 8 = ₹146.40 \text{ kg}$

(b) Wheat purchased in ₹91.50 = 5 kg

Wheat purchased in ₹1 = $5 / 91.50 \text{ kg}$

So, wheat purchased in ₹183 = $(5/91.50) \times 183 = 10 \text{ kg}$)

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