

Q1 Find the ratio of:-

- (i) 40 cm to 1.5 m
- (ii) 40 paise to ₹ 3
- (iii) 1 l 35 ml to 270 ml
- (iv) 3 weeks to 30 days

Q2 Find the greatest ratio \rightarrow 7:2, 4:3, 7:9

Q3 Find x in the following proportions:

- (i) $36 : 81 :: x : 63$
- (ii) $51 : 85 :: 57 : x$

Q4 A car travel 195 km in 3 hours

- (i) How long will it take to travel 520 km?
- (ii) How far will it travel in 7 hours with the same speed?

Q5 If 35 inland letters cost ₹ 87.50, how many letters can we buy for ₹ 315?

Q6 An office opens at 9:00 a.m and closes at 5:00 p.m with a lunch interval of 30 minutes. What is the ratio of lunch interval to the total period in office?

Q7 The perimeter of a triangle is 48 cm. The length of the sides are in the ratio 3:4:5. Find the length of each side of triangle

Q8 Fill in the boxes:-

$$(i) \frac{1.2}{36} = \frac{3.6}{\square} = \frac{\square}{216} \quad (ii) \frac{7}{9} = \frac{21}{\square} = \frac{\square}{45} = \frac{56}{\square}$$

Q9 The first, third and fourth terms of a proportion are 12, 8 and 14 respectively. Find the second term?

Q10 In a hostel, 550 students had provisions for 28 days. (2)
For how many days will it last long for 700 students?

Q11 Fill in the blanks:-

(i) If Raju & Salma got 75 marks and 85 marks respectively in an examination, then the ratio of Salma's marks to the total marks obtained by both of them is _____

(ii) Reena saves ₹ 4770 in 3 months. She will save ₹ 12720 in _____ months

(iii) The simplest form of $12:18 =$ _____

(iv) The lowest form of the ratio 70 paise to ₹ 7 = _____

Q12 Arvind can type 2700 words in one hour. How many words can he type in 3 minutes?

Q13 If a dozen of eggs costs ₹ 14.40, how many eggs can be bought for ₹ 37.20

Q14 True / False:-

(i) Ratio is a comparison of two quantities of the same kind, even if they are having different units

(ii) A ratio is a fraction. It cannot be an integer.

(iii) In the word 'Proportion', the ratio of the number of O's to the number of R's is 3:2

Q15 Mr Arora divided ₹ 52,002 between his two sons Kamal and Rakesh in the ratio 4:5. How much did each of them get?

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ANSWERS

1) (i) 4:15 (ii) 2:15 (iii) 23:6 (iv) 7:10

2) 7:2

3) (i) $x = 28$ (ii) $x = 95$

4) (i) 8 hours (ii) 455 km

5) 126 inland letters

6) 1:16

7) 12 cm, 16 cm, 20 cm

8) (i) 108, 7.2 (ii) 27, 35, 72

9) 21

10) $35\frac{7}{11}$ days

11) (i) 17:32 (ii) 8 (iii) 2:3 (iv) 1:10

12) 135 words

13) 31 eggs

Q14) (i) True (ii) True (iii) True

15) Kamal = ₹ 23,112

Rakesh = ₹ 28,890

_____ x _____