

Ratio Proportion and Unitary Method Ex 9.1 Q1

Answer:

- (i) The ratio of the number of girls in the merit list of the board examination to the number of boys in that list is 2 : 1.
- (ii) The ratio of the number of students passing mathematics test to the total number of students appeared is 2:3.

Ratio Proportion and Unitary Method Ex 9.1 Q2 Answer:

- (i) The ratio of the number of bad pencils to that of good pencils produced in a factory is 1:9 means out of 10 or (9 + 1) pencils, 9 pencils are good and 1 is bad.
- (ii) In India, the number of villages is 2,000 times that of the cities.

Ratio Proportion and Unitary Method Ex 9.1 Q3

Answer:

(i) 60:72 = 5:6 (dividing by 12)

(ii) 324: 144 = 9: 4 (dividing by 36)

(iii) 85: 391 = 5: 23 (dividing by 17)

(iv) 186: 403 = 6: 13 (dividing by 31)

Ratio Proportion and Unitary Method Ex 9.1 Q4

Answer:

- (i) : Rs. 1 = 100 paise
 - $\therefore 75 : 300 = 1 : 4$
- (ii) 35:45=7:9
- (iii) \therefore 1 kg = 1000 gm
 - 3000:400=20:1
- (iv) : 1 Hour = 60 minute
 - $\therefore 48:60=4:5$
- (v) :: 1 meter = 100 cm
 - $\therefore 200:35=40:7$
- (vi) ∵ 1 min = 60 sec.
 - $35 \times 60 : 45 = 140 : 3$
- (vii) \therefore 1 dozen = 12
 - \therefore 1 score = 20
 - or 3 score = $3 \times 20 = 60$
 - $\therefore 24:60=2:5.$
- (viii) : 1 week = 7 days
 - $\therefore 21:3=7:1$
- (ix) : 1 hour = 60 minute
 - \therefore 2 hour 40 min = 2 × 60 + 40 = 160
 - $\therefore 48:160=3:10$
- (x) : 1 meter = 100 cm
 - $\therefore 3 \text{ m } 5 \text{ cm} = 3 \times 100 + 5 = 305 \text{ cm}$
 - 305:35=61:7

Ratio Proportion and Unitary Method Ex 9.1 Q5

Answer:

- (i) The ratio of 3.2 metres to 56 metres = 3.2 : 56 = 0.4 : 7 = 2 : 35
- (ii) The ratio of 10 metres to 25 cm = 1000 : 25 = 40 : 1
- (iii) The ratio of 25 paisa to Rs 60 = 25 : 6000 = 1 : 240
- (iv) The ratio of 10 litres to 0.25 litre = 10: 0.25 = 40: 1

Ratio Proportion and Unitary Method Ex 9.1 Q6 Answer:

Ratio of the number of boys to that of the girls is 1168: 1095 = 16: 15 (dividing by 73)

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