EXERCISE - 10A

Q-2. Represent the following as the ratio-

a. 6, 9 Ratio of 6 to 9 = 6 : 9 = 2 : 3
b. 18, 36 Ratio = 18 : 36 = 1 : 2
d.. 36, 8 Ratio = 36 : 8 = 9 : 2
f.. 19, 14 Ratio = 19 : 14

Q-5. There are 35 girls and 45 boys in a class . Find the ratio of –

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a. No of girls to the no of boys
No of girls = 35
No of boys = 45
Ratio = Girls : Boys
= 35 : 45
= 7 : 9
b. No of girls to total no of students
Total students = 35 + 45 = 80
Ratio = Girls : Total students
= 35 : 80
= 7 : 16
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Q.6 Find the ratio of the following –

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a. 75 paise to Rs 5
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Rs 5 = 500 paise

Ratio = 75 : 500

= 3 : 20 b.. 7kg to 700grams 7kg = 7000 grams Ratio = 7000 : 700 = 10 : 1 c. 3 dozen to 2 scores 1 dozen = 12 1 score = 20 3 dozen = 12 x3 = 36 2 scores = 2 x 20 = 40 Ratio = 3 dozen : 2 scores = 36 : 40 = 9 : 10

Q-7. Raj earns Rs 25000 per month and saves Rs 5000 per month . Find the ratio of –

Earnings = Rs 250000, Savings = Rs 5000 a. Earnings : Savings 25000 : 5000 5 : 1b. Expenditure = Earnings - Savings = 25000 - 5000 = 20000 = Earnings : Expenditure 25000 : 20000 5 : 4

Q-9. Compare the following Ratios –

a. 7:6 and 24:9
7:6 =
$$\frac{7}{6}$$
 and 24:9 = $\frac{24}{9}$

$$\frac{7}{6} = \frac{24}{9}$$

$$7 \times 9 = 63$$

$$6 \times 24 = 114$$

$$\Rightarrow 63 < 114$$

$$\Rightarrow \frac{7}{6} < \frac{24}{9}$$



Q-12. Out of 30 fruits 13 are mangoes and the remaining are oranges . What is the ratio of the oranges to the mangoes?

Sol : total fruits = 30

Mangoes = 13,

then oranges = total - mangoes

30 - 13 = 17

Ratio = oranges : mangoes

17:13

Q-13. Two no are in the ratio 8:7. Their sum is 60. Find the no.

Sol : Let the no be 8x and 7x

$$8 x + 7x = 60$$

 $15x = 60$
 $x = 60/15 = 4$
 $x = 4$
So no are : $8x = 8x 4 = 32$
 $7x = 7 x4 = 28$

Q-14. The sum of two angles is 90 degrees . The angles are in the ratio 2 : 3 . Find the measure of each angle .

Sol : Let the angles be 2x and 3x

A.T.Q. 2x + 3x = 90 5x = 90 x = 90/5 = 18So angles are : $2x = 2x \ 18 = 36^{0}$

 $3x = 3 x 18 = 54^{\circ}$

Q-16. Divide Rs 1500 between Aania and Biju in the ratio 5 : 7 . How much will each of them get?

Sol : Total Rupees = 1500

Let Aania and Biju,s part be 5x and 7x

A.T.Q

5x + 7x = 1500

12x = 1500

x = 1500 / 12 = 125

so Aania's part = $5x = 5x \ 125 = 625$

and Biju's part = $7x = 7 \times 125 = 875$