

## EduSahara<sup>™</sup> Assignment

1. Two numbers are in the ratio 13 : 19. If 20 is added to each number, the ratio becomes 101 : 143. Find the numbers.

(i) 195:285 (ii) 156:228 (iii) 169:247 (iv) 208:304 (v) 182:266

The ratio of two numbers is

2. 2:4

and their LCM is 44. Find the numbers.

- (i) 22:44 (ii) 26:52 (iii) 24:48 (iv) 18:36 (v) 20:40
- 3. Find the number which bears the same ratio to  $\frac{3}{4}$  that  $\frac{2}{5}$  does to  $\frac{9}{14}$ 
  - (i)  $\frac{3}{5}$  (ii)  $\frac{7}{17}$  (iii)  $\frac{7}{13}$  (iv)  $\frac{1}{3}$  (v)  $\frac{7}{15}$
- 4. The ages of A and B are in the ratio 5 : 9. 7 years hence, their ages will be in the ratio 3 : 5. Find their present ages.
  - (i) 30:54 (ii) 25:45 (iii) 35:63 (iv) 45:81
- 5. The ages of A and B are in the ratio 10 : 7. 6 years ago, their ages were in the ratio 3 : 2. Find their present ages.
  (i) 40:28 (ii) 80:56 (iii) 50:35 (iv) 60:42
- 6. In a mixture of 119 litres, the ratio of milk and water is 5 : 2. How much water must be added to this mixture to make the ratio 85 : 114?

(i) 80 (ii) 79 (iii) 81 (iv) 83 (v) 78

7. The ratio of males to females in a committee of 416 members is 19 : 13. How many more ladies should be added to the committee so that the ratio of males to females is 247 : 199?

(i) 28 (ii) 31 (iii) 33 (iv) 30 (v) 29

An employer reduces the number of employees in the ratio of 11 : 2 and increases their wages in the ratio 14 : 17.
 In what ratio, the wage bill is increased or decreased?

(i) 77:15 (ii) 77:20 (iii) 76:17 (iv) 77:17

- 9. The work done by (6x + 2) men in (x + 1) days and work done by (2x + 1) men in (5x) days is in the ratio of 16 : 21 . Find the value of x
  - (i) 5 (ii) 4 (iii) 0 (iv) 2 (v) 3
- 10. A man reduces his weight in the ratio 19 : 10. What is his weight now, if originally he was 53 kg ?

(i) 28 kg (ii)  $\frac{549}{19}$  kg (iii)  $\frac{531}{19}$  kg (iv)  $\frac{568}{19}$  kg (v)  $\frac{530}{19}$  kg

11. A certain amount has been divided into two parts in the ratio 9 : 6. If the first part is 261, find the total amount.
(i) 435 (ii) 437 (iii) 436 (iv) 434 (v) 433

12. Two numbers are in the ratio 3 : 1 and their difference is 60. Find the numbers.

(i) 91,30 (ii) 90,27 (iii) 90,30 (iv) 90,32 (v) 89,30

Divide ₹101500 into three parts such that the first one is  $\frac{9}{7}$  of the second

and ratio between second and the third is 6 : 7

- (i) ₹37800.00:₹29400.00:₹29400.00 (ii) ₹34300.00:₹37800.00:₹29400.00
- (iii) ₹29400.00:₹34300.00:₹37800.00 (iv) ₹37800.00:₹34300.00:₹29400.00
- (v) ₹37800.00:₹29400.00:₹34300.00
- 14. Increase 616 in the ratio 11 : 18
  - (i) 1009 (ii) 1011 (iii) 1008 (iv) 1007 (v) 1006

Divide ₹36600 among A,B,C so that A shall receive  $\frac{35}{26}$  of what B and C together recieve and B may receive  $\frac{10}{51}$ 

of what A and C receive

(i) ₹6000.00:₹9600.00:₹21000.00 (ii) ₹21000.00:₹6000.00:₹6000.00

(iii) ₹9600.00:₹21000.00:₹6000.00 (iv) ₹21000.00:₹6000.00:₹9600.00

(v) ₹21000.00:₹9600.00:₹6000.00

16. A bag contains ₹1600 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 7 : 19 : 7. Find the number of coins of each type

(i) 138, 385, 140 (ii) 141, 385, 135 (iii) 139, 380, 145 (iv) 140, 380, 140 (v) 142, 375, 140

The sides of a triangle are in the ratio  $\frac{1}{3}:\frac{1}{7}:\frac{1}{5}$  and its perimeter is 1136 cm.

Find the lengths of the sides of the triangle

(i) 560cm:240cm:336cm (ii) 565cm:235cm:336cm (iii) 565cm:240cm:331cm

(iv) 555cm:245cm:336cm (v) 555cm:240cm:341cm

In an examination, the ratio of passes to failures was 9 : 5.

 Had 110 less appeared and 20 less passed, the ratio of passes to failures would have been 52 : 21. How many students appeared for the examination?

(i) 840 (ii) 850 (iii) 835 (iv) 830 (v) 845

In a company, the number of engineers to managers is in the ratio 6 : 5 . After a year, when 10 engineers and 10

19. managers left, the ratio between engineers to managers is 17 : 14 . Find the number of engineers and managers at the beginning?

(i) 310 (ii) 330 (iii) 340 (iv) 350 (v) 320

20. What number must be added to each term of the ratio 300:340 to make it 27:29 ?

(i) 237 (ii) 239 (iii) 243 (iv) 241 (v) 240

21. What quantity must be added to each of the terms of the ratio 98:126 to make it 10:11?

(i) 181 (ii) 183 (iii) 185 (iv) 182 (v) 179

Assignment Key						
1) (v)	2) (i)	3) (v)	4) (iii)	5) (iv)	6) (i)	
7) (iv)	8) (iv)	9) (v)	10) (v)	11)(i)	12) (iii)	
13) (v)	14) (iii)	15) (iv)	16) (iv)	17) (i)	18) (i)	
19) (ii)	20) (v)	21) (iv)				

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