



1. Divide 3860 in the ratio 7 : 13  
(i) 1352 , 2509 (ii) 1351 , 2509 (iii) 1351 , 2506 (iv) 1351 , 2511 (v) 1350 , 2509
2. A ratio is equal to 2 : 5. If its antecedent is 3500, what is its consequent?  
(i) 8749 (ii) 8750 (iii) 8748 (iv) 8751 (v) 8753
3. Divide 1224 in the ratio 12 : 4 : 18  
(i) 433 , 144 , 648 (ii) 432 , 144 , 648 (iii) 431 , 144 , 648 (iv) 432 , 141 , 648 (v) 432 , 147 , 648
4. The consequent in the ratio 5:2 =  
(i) 2 (ii) 5 (iii) 4 (iv) 1
5. Find the ratio between 9 months and 2 years 9 months  
(i) 3:9 (ii) 3:11 (iii) 3:14 (iv) 2:11
6. An office contains 420 employees of 4 types. There are 120 managers, 60 team leaders and 30 developers. The number of testers in the office =  
(i) 208 (ii) 209 (iii) 213 (iv) 211 (v) 210
7. A box contains 297 fruits of 3 types. There are 162 mangoes and 54 apples. The number of oranges in the box =  
(i) 83 (ii) 82 (iii) 78 (iv) 80 (v) 81
8. Find the number which bears the same ratio to  $\frac{1}{9}$  that  $\frac{5}{8}$  does to  $\frac{19}{72}$   
(i)  $\frac{7}{19}$  (ii)  $\frac{3}{19}$  (iii)  $\frac{5}{19}$  (iv)  $\frac{5}{17}$  (v)  $\frac{5}{21}$
9. A box contains 399 pens and 285 pencils. The ratio of pens to the total stationary items =  
(i) 6:12 (ii) 7:10 (iii) 7:12 (iv) 7:15 (v) 8:12
10. Two numbers are in the ratio 2 : 1 and their difference is 21. Find the numbers.  
(i) 42,21 (ii) 42,24 (iii) 42,18 (iv) 41,21 (v) 43,21
11. If  $a : b = \frac{1}{2} : \frac{4}{19}$  and  $b : c = \frac{10}{13} : \frac{2}{7}$ , then  $a : b : c =$   
(i)  $\frac{5}{11} : \frac{40}{247} : \frac{8}{133}$  (ii)  $\frac{5}{13} : \frac{42}{247} : \frac{8}{133}$  (iii)  $\frac{1}{3} : \frac{40}{247} : \frac{8}{133}$  (iv)  $\frac{5}{13} : \frac{40}{247} : \frac{8}{133}$  (v)  $\frac{5}{13} : \frac{2}{13} : \frac{8}{133}$
12. An office contains 88 managers, 44 team leaders, 22 developers and 154 testers. The ratio of managers and team leaders =  
(i) 2:-1 (ii) 3:1 (iii) 2:3 (iv) 2:1 (v) 1:1

13. In a mixture of 464 litres, the ratio of milk and water is 13 : 16. How much water must be added to this mixture to make the ratio 104 : 153?

- (i) 49 (ii) 50 (iii) 51 (iv) 47 (v) 52

14. If  $a : b = \frac{5}{7} : \frac{4}{3}$ ,  $b : c = \frac{4}{5} : \frac{3}{4}$  and  $c : d = \frac{3}{8} : \frac{7}{2}$ , then  $a : b : c : d =$

- (i) 60:112:105:980 (ii) 61:112:105:980 (iii) 60:114:105:980 (iv) 60:109:105:980  
(v) 59:112:105:980

The ratio of two numbers is

15. 4:3

and their LCM is 72. Find the numbers.

- (i) 28:21 (ii) 16:12 (iii) 32:24 (iv) 24:18 (v) 20:15

16. Find the ratio between 11 months and 4 years

- (i) 11:50 (ii) 11:48 (iii) 11:45 (iv) 10:48

17. A box contains 108 mangoes, 324 apples and 378 oranges. The ratio of mangoes to the total fruits =

- (i) 1:15 (ii) 2:15 (iii) 2:18 (iv) 3:15 (v) 2:12

18. The work done by  $(8x)$  men in  $(2)$  days and work done by  $(3x)$  men in  $(2x + 4)$  days is in the ratio of 8 : 21. Find the value of  $x$

- (i) 8 (ii) 4 (iii) 5 (iv) 2 (v) 6

19. What number must be added to each term of the ratio 20:300 to make it 6:13?

- (i) 222 (ii) 221 (iii) 218 (iv) 219 (v) 220

20. Find the ratio between 5 gm and 6 kg

- (i) 0:1200 (ii) 1:1202 (iii) 1:1200 (iv) 1:1197

21. Which of the following is true?

- (i)  $3:1 > 7:6$  (ii)  $5:4 > 9:2$  (iii)  $9:2 < 5:4$  (iv)  $8:5 < 9:8$  (v)  $7:2 < 6:5$

22. The simplest form of 72:108 =

- (i) 3:3 (ii) 1:3 (iii) 72:111 (iv) 2:1 (v) 2:3

23. Find the mean proportional of 128 and 2

- (i) 256 (ii) 2 (iii) 14 (iv) 16 (v) 128

24. Find the product of extremes of  $\frac{11}{19} : \frac{17}{6}$  and  $\frac{2}{3} : \frac{19}{14}$

- (i)  $\frac{13}{14}$  (ii)  $\frac{9}{14}$  (iii)  $\frac{11}{14}$  (iv)  $\frac{17}{9}$  (v)  $\frac{11}{12}$

25. The antecedent in the ratio 10:18 =

- (i) 12 (ii) 16 (iii) 9 (iv) 10 (v) 18

## Assignment Key

1) (ii)	2) (ii)	3) (ii)	4) (i)	5) (ii)	6) (v)
7) (v)	8) (iii)	9) (iii)	10) (i)	11) (iv)	12) (iv)
13) (ii)	14) (i)	15) (iv)	16) (ii)	17) (ii)	18) (iii)
19) (v)	20) (iii)	21) (i)	22) (v)	23) (iv)	24) (iii)
25) (iv)					