



1. Divide 20661 in the ratio 18 : 19 : 38 : 22  
(i) 3834 , 4047 , 8094 , 4686 (ii) 3835 , 4047 , 8094 , 4686 (iii) 3834 , 4045 , 8094 , 4686  
(iv) 3834 , 4049 , 8094 , 4686 (v) 3833 , 4047 , 8094 , 4686
2. The fraction equivalent of the ratio 5:2 =  
(i)  $\frac{5}{2}$  (ii)  $\frac{3}{2}$  (iii)  $\frac{7}{2}$  (iv)  $\frac{2}{5}$  (v) 5
3. A box contains 110 stationary items of 2 types. The pens and pencils are in the ratio 4 : 1. The number of pens in the box =  
(i) 91 (ii) 89 (iii) 86 (iv) 88 (v) 87
4. Find the ratio between 8 m and 10 km  
(i) 0:1250 (ii) 1:1250 (iii) 1:1248 (iv) 1:1252
5. The sides of a triangle are in the ratio  $\frac{1}{7} : \frac{1}{9} : \frac{1}{8}$  and its perimeter is 3820 cm.  
Find the lengths of the sides of the triangle  
(i) 1435 cm:1125 cm:1260 cm (ii) 1440 cm:1120 cm:1260 cm (iii) 1435 cm:1120 cm:1265 cm  
(iv) 1445 cm:1115 cm:1260 cm (v) 1445 cm:1120 cm:1255 cm
6. The ratio equivalent of the fraction  $\frac{40}{61} =$   
(i) 40:63 (ii) 40:61 (iii) 39:61 (iv) 40:58 (v) 61:40
7. Which of the ratios is proportional to 16 : 4?  
(i) 16:6 (ii) 16:4 (iii) 16:2 (iv) 15:4 (v) 17:4
8. If  $a:b::c:d$ , then  
(i)  $ad = bc$  (ii)  $ab = cd$  (iii)  $abc = bcd$  (iv)  $ac = bd$
9. Find the product of means of  $\frac{11}{13} : \frac{13}{5}$  and  $\frac{18}{7} : \frac{17}{7}$   
(i)  $\frac{187}{91}$  (ii)  $\frac{232}{35}$  (iii)  $\frac{78}{11}$  (iv)  $\frac{234}{35}$  (v)  $\frac{236}{35}$
10. A certain amount has been divided into two parts in the ratio 2 : 4. If the first part is 72, find the total amount.  
(i) 215 (ii) 219 (iii) 217 (iv) 214 (v) 216

11. The consequent in the ratio  $\frac{12}{5} : \frac{9}{7} =$

- (i)  $\frac{12}{5}$  (ii)  $\frac{11}{7}$  (iii)  $\frac{9}{5}$  (iv)  $\frac{9}{7}$  (v) 2

12. A box contains 165 mangoes, 132 apples and 198 oranges. The ratio of mangoes and apples =

- (i) 5:6 (ii) 5:4 (iii) 5:1 (iv) 6:4 (v) 4:4

13. Divide 3120 in the ratio 11 : 15

- (i) 1320 , 1798 (ii) 1321 , 1800 (iii) 1320 , 1803 (iv) 1320 , 1800 (v) 1319 , 1800

14. A box contains 960 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 6 : 3 : 6. The number of apples in the box =

- (i) 190 (ii) 192 (iii) 191 (iv) 193 (v) 194

15. Find the ratio between 3 months and 5 years

- (i) 1:23 (ii) 1:20 (iii) 0:20 (iv) 1:17

16. Divide 3243 in the ratio 4 : 9 : 16 : 18

- (i) 276 , 621 , 1104 , 1242 (ii) 276 , 623 , 1104 , 1242 (iii) 275 , 621 , 1104 , 1242  
(iv) 276 , 619 , 1104 , 1242 (v) 277 , 621 , 1104 , 1242

17. Find the ratio between 22 hr and 8 days

- (i) 11:96 (ii) 10:96 (iii) 11:94 (iv) 11:98

18. Find the missing value in the equation  $16:4 = 36: \underline{\hspace{1cm}}$

- (i) 10 (ii) 7 (iii) 9 (iv) 8 (v) 12

19. An office contains 1380 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 7 : 6 : 1 : 6. The number of testers in the office =

- (i) 411 (ii) 416 (iii) 415 (iv) 413 (v) 414

20. A bag contains ₹1920 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 17 : 10 : 15. Find the number of coins of each type

- (i) 271 , 160 , 245 (ii) 270 , 165 , 240 (iii) 272 , 160 , 240 (iv) 273 , 165 , 235 (v) 274 , 155 , 240

21. Which of the following does not represent a proportion ?

- (i) 24:21::48:42 (ii) 15:12::60:48 (iii) 14:12::42:36 (iv) 6:5::12:15 (v) 16:12::80:60

22. Find the missing value in the equation  $24: \underline{\hspace{1cm}} = 16:4$

- (i) 5 (ii) 7 (iii) 8 (iv) 6 (v) 4

23. Divide 3834 in the ratio  $\frac{1}{8} : \frac{8}{7}$

- (i) 378 , 3454 (ii) 378 , 3456 (iii) 379 , 3456 (iv) 378 , 3459 (v) 377 , 3456

24. A ratio is equal to 7 : 1. If its consequent is 160, what is its antecedent?

- (i) 1122 (ii) 1119 (iii) 1120 (iv) 1118 (v) 1121

25. Find the ratio between 8 gm and 10 kg

(i) 1:1253 (ii) 1:1248 (iii) 0:1250 (iv) 1:1250

## Assignment Key

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