



1. The ratio equivalent of the fraction  $\frac{5}{8} =$

- (i) 5:11 (ii) 8:5 (iii) 5:8 (iv) 5:5 (v) 4:8

2. The ratio equivalent of the fraction  $\frac{43}{96} =$

- (i) 96:43 (ii) 43:99 (iii) 42:96 (iv) 43:96 (v) 43:94

3. The fraction equivalent of the ratio 7:9 =

- (i)  $\frac{5}{9}$  (ii)  $\frac{7}{9}$  (iii)  $\frac{9}{7}$  (iv) 1

4. The fraction equivalent of the ratio 65:78 =

- (i)  $\frac{78}{65}$  (ii)  $\frac{67}{78}$  (iii)  $\frac{65}{76}$  (iv)  $\frac{65}{78}$  (v)  $\frac{21}{26}$

5. The inverse ratio of 9:8 =

- (i) 9:5 (ii) 27:24 (iii) 9:10 (iv) 8:9 (v) 7:9

6. The antecedent in the ratio 20:7 =

- (i) 20 (ii) 7 (iii) 23 (iv) 5 (v) 19

7. The antecedent in the ratio  $\frac{5}{11} : \frac{13}{5} =$

- (i)  $\frac{5}{9}$  (ii)  $\frac{7}{11}$  (iii)  $\frac{13}{5}$  (iv)  $\frac{11}{5}$  (v)  $\frac{5}{11}$

8. The consequent in the ratio 4:20 =

- (i) 1 (ii) 20 (iii) 4 (iv) 19 (v) 22

9. The consequent in the ratio  $\frac{7}{2} : \frac{13}{2} =$

- (i) 13 (ii)  $\frac{15}{2}$  (iii)  $\frac{7}{2}$  (iv)  $\frac{5}{2}$  (v)  $\frac{13}{2}$

10. The simplest form of 234:180 =

- (i) 13:7 (ii) 13:10 (iii) 12:10 (iv) 14:10 (v) 234:182

11. If  $a : b = 2 : 13$  and  $b : c = 10 : 14$ , then  $a : b : c =$

- (i) 21:130:182 (ii) 20:133:182 (iii) 20:130:182 (iv) 19:130:182 (v) 20:127:182

12. If  $a : b = 4 : 39$  and  $b : c = 12 : 22$ , then  $a : b : c =$

- (i) 48:471:858 (ii) 47:468:858 (iii) 48:468:858 (iv) 48:466:858 (v) 49:468:858

13. If  $a : b = \frac{7}{14} : \frac{6}{7}$  and  $b : c = \frac{4}{11} : \frac{2}{18}$ , then  $a : b : c =$

- (i)  $\frac{2}{9} : \frac{24}{77} : \frac{2}{21}$  (ii)  $\frac{2}{11} : \frac{2}{7} : \frac{2}{21}$  (iii)  $\frac{2}{11} : \frac{24}{77} : \frac{2}{21}$  (iv)  $\frac{2}{11} : \frac{26}{77} : \frac{2}{21}$  (v)  $\frac{2}{13} : \frac{24}{77} : \frac{2}{21}$

14. If  $a : b = \frac{11}{16} : \frac{32}{33}$  and  $b : c = \frac{12}{14} : \frac{9}{23}$ , then  $a : b : c =$

- (i)  $\frac{33}{56} : \frac{62}{77} : \frac{96}{253}$  (ii)  $\frac{11}{18} : \frac{64}{77} : \frac{96}{253}$  (iii)  $\frac{33}{56} : \frac{64}{77} : \frac{96}{253}$  (iv)  $\frac{33}{58} : \frac{64}{77} : \frac{96}{253}$  (v)  $\frac{33}{56} : \frac{6}{7} : \frac{96}{253}$

15. Find the missing value in the equation  $\_\_\_ : 6 = 20 : 5$

- (i) 23 (ii) 22 (iii) 25 (iv) 24 (v) 27

16. Find the missing value in the equation  $21 : \_\_\_ = 105 : 5$

- (i) 4 (ii) (-2) (iii) 2 (iv) 0 (v) 1

17. Find the missing value in the equation  $20 : 5 = \_\_\_ : 9$

- (i) 36 (ii) 34 (iii) 35 (iv) 39 (v) 37

18. Find the missing value in the equation  $22 : 1 = 110 : \_\_\_$

- (i) 6 (ii) 4 (iii) 2 (iv) 7 (v) 5

19. Divide 810 in the ratio 18 : 12

- (i) 487, 324 (ii) 486, 322 (iii) 486, 324 (iv) 486, 326 (v) 485, 324

20. Divide 4440 in the ratio 10 : 27

- (i) 1199, 3240 (ii) 1200, 3238 (iii) 1200, 3243 (iv) 1201, 3240 (v) 1200, 3240

21. Divide 2600 in the ratio 12 : 5 : 3

- (i) 1559, 650, 390 (ii) 1560, 652, 390 (iii) 1560, 650, 390 (iv) 1560, 647, 390 (v) 1561, 650, 390

22. Divide 25584 in the ratio 32 : 30 : 20

- (i) 9984, 9360, 6240 (ii) 9985, 9360, 6240 (iii) 9983, 9360, 6240 (iv) 9984, 9357, 6240  
(v) 9984, 9362, 6240

23. Divide 3808 in the ratio 2 : 18 : 9 : 5

- (i) 224, 2016, 1008, 560 (ii) 223, 2016, 1008, 560 (iii) 224, 2018, 1008, 560  
(iv) 224, 2014, 1008, 560 (v) 225, 2016, 1008, 560

24. Divide 11877 in the ratio 32 : 36 : 13 : 30

- (i) 3424, 3854, 1391, 3210 (ii) 3423, 3852, 1391, 3210 (iii) 3425, 3852, 1391, 3210  
(iv) 3424, 3852, 1391, 3210 (v) 3424, 3849, 1391, 3210

25. A ratio is equal to 7 : 5. If its antecedent is 1260, what is its consequent?

- (i) 901 (ii) 902 (iii) 899 (iv) 900 (v) 898

26. A ratio is equal to 3 : 1. If its consequent is 2730, what is its antecedent?

- (i) 8190 (ii) 8189 (iii) 8192 (iv) 8188 (v) 8191

27. Find the ratio between 4 months and 5 years 7 months

- (i) 4:67 (ii) 3:67 (iii) 4:64 (iv) 4:70

28. Find the number which bears the same ratio to  $\frac{1}{9}$  that  $\frac{3}{7}$  does to  $\frac{3}{28}$

- (i)  $\frac{2}{9}$  (ii)  $\frac{4}{11}$  (iii)  $\frac{4}{7}$  (iv)  $\frac{2}{3}$  (v)  $\frac{4}{9}$

29. The ascending order of 1:3, 8:9, 3:7, 4:5, 2:3, 3:4 is

- (i) 8:9, 2:3, 3:4, 4:5, 3:7, 1:3 (ii) 2:3, 3:4, 8:9, 4:5, 1:3, 3:7 (iii) 1:3, 3:7, 2:3, 3:4, 4:5, 8:9  
(iv) 1:3, 4:5, 3:4, 2:3, 3:7, 8:9 (v) 3:4, 4:5, 3:7, 2:3, 1:3, 8:9

30. Divide 1235 in the ratio  $\frac{8}{3} : \frac{1}{2}$

- (i) 1040, 195 (ii) 1039, 195 (iii) 1041, 195 (iv) 1040, 198 (v) 1040, 193

31. Divide 2784 in the ratio  $\frac{5}{2} : \frac{1}{7} : \frac{3}{2}$

- (i) 1680, 93, 1008 (ii) 1680, 99, 1008 (iii) 1681, 96, 1008 (iv) 1680, 96, 1008 (v) 1679, 96, 1008

32. Which of the following is true?

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

33. Find the ratio between 9 months and 7 years

- (i) 3:30 (ii) 3:28 (iii) 2:28 (iv) 3:25

34. Find the ratio between 3 min and 49 hr

- (i) 0:980 (ii) 1:982 (iii) 1:980 (iv) 1:977

35. Find the ratio between 6 m and 6 km

- (i) 1:997 (ii) 1:1003 (iii) 0:1000 (iv) 1:1000

36. Find the ratio between 7 gm and 4 kg

- (i) 7:3998 (ii) 7:4000 (iii) 7:4002 (iv) 6:4000

37. Find the ratio between 8 l and 5 kl

- (i) 1:625 (ii) 1:623 (iii) 1:628 (iv) 0:625

38. Find the ratio between 9 hr and 18 days

- (i) 1:50 (ii) 0:48 (iii) 1:48 (iv) 1:46

39. Find the product of extremes of 4:15 and 19:11

- (i) 43 (ii) 47 (iii) 44 (iv) 285 (v) 41

40. Find the product of extremes of  $\frac{4}{15} : \frac{10}{19}$  and  $\frac{8}{17} : \frac{13}{19}$

- (i)  $\frac{52}{283}$  (ii)  $\frac{80}{323}$  (iii)  $\frac{18}{95}$  (iv)  $\frac{52}{285}$  (v)  $\frac{10}{57}$

41. Find the product of means of 6:16 and 16:13

- (i) 258 (ii) 256 (iii) 254 (iv) 78 (v) 255

42. Find the product of means of  $\frac{5}{2} : \frac{4}{11}$  and  $\frac{2}{11} : \frac{2}{7}$

- (i)  $\frac{8}{121}$  (ii)  $\frac{6}{121}$  (iii)  $\frac{8}{119}$  (iv)  $\frac{10}{121}$  (v)  $\frac{5}{7}$

43. Find the mean proportional of 50 and 2

- (i) 10 (ii) 2 (iii) 50 (iv) 100 (v) 7

44. Find the third proportional of 72 and 12

- (i) 72 (ii) 12 (iii) 2 (iv) 0 (v) 144

45. Find the fourth proportional of 12, 3 and 8

- (i) 0 (ii) 3 (iii) 4 (iv) 8 (v) 2

46. Which of the ratios is proportional to 8 : 2?

- (i) 17:4 (ii) 16:6 (iii) 16:2 (iv) 15:4 (v) 16:4

47. The ratio 3 : 5 is proportional to which of the following ratios?

- (i) 18:10 (ii) 12:15 (iii) 6:30 (iv) 9:20 (v) 15:25

## Assignment Key

1) (iii)	2) (iv)	3) (ii)	4) (iv)	5) (iv)	6) (i)
7) (v)	8) (ii)	9) (v)	10) (ii)	11) (iii)	12) (iii)
13) (iii)	14) (iii)	15) (iv)	16) (v)	17) (i)	18) (v)
19) (iii)	20) (v)	21) (iii)	22) (i)	23) (i)	24) (iv)
25) (iv)	26) (i)	27) (i)	28) (v)	29) (iii)	30) (i)
31) (iv)	32) (v)	33) (ii)	34) (iii)	35) (iv)	36) (ii)
37) (i)	38) (iii)	39) (iii)	40) (iv)	41) (ii)	42) (i)
43) (i)	44) (iii)	45) (v)	46) (v)	47) (v)	