



1. The ratio equivalent of the fraction  $\frac{4}{9} =$

- (i) 4:7 (ii) 9:4 (iii) 3:9 (iv) 4:9 (v) 4:12

2. The ratio equivalent of the fraction  $\frac{49}{22} =$

- (i) 22:49 (ii) 49:22 (iii) 49:24 (iv) 49:19 (v) 48:22

3. The fraction equivalent of the ratio 1:4 =

- (i)  $\frac{3}{4}$  (ii)  $\frac{4}{1}$  (iii)  $\frac{1}{2}$  (iv)  $(\frac{-1}{4})$  (v)  $\frac{1}{4}$

4. The fraction equivalent of the ratio 60:81 =

- (i)  $\frac{62}{81}$  (ii)  $\frac{60}{79}$  (iii)  $\frac{60}{81}$  (iv)  $\frac{81}{60}$  (v)  $\frac{58}{81}$

5. The inverse ratio of 28:18 =

- (i) 28:16 (ii) 17:28 (iii) 18:28 (iv) 140:90 (v) 28:21

6. The antecedent in the ratio 15:12 =

- (i) 9 (ii) 12 (iii) 15 (iv) 14 (v) 17

7. The antecedent in the ratio  $\frac{3}{17} : \frac{19}{11} =$

- (i)  $\frac{17}{11}$  (ii)  $\frac{19}{11}$  (iii)  $\frac{3}{17}$  (iv)  $\frac{5}{17}$  (v)  $\frac{1}{5}$

8. The consequent in the ratio 20:15 =

- (i) 18 (ii) 15 (iii) 17 (iv) 20 (v) 14

9. The consequent in the ratio  $\frac{17}{5} : \frac{15}{17} =$

- (i) 1 (ii)  $\frac{15}{17}$  (iii) 3 (iv)  $\frac{17}{5}$

10. The simplest form of 760:560 =

- (i) 19:14 (ii) 20:14 (iii) 760:562 (iv) 19:12 (v) 18:14

11. If  $a : b = 1 : 6$  and  $b : c = 1 : 2$ , then  $a : b : c =$

- (i) 1:3:12 (ii) 0:6:12 (iii) 1:6:12 (iv) 1:9:12 (v) 2:6:12

12. If  $a : b = 3 : 20$  and  $b : c = 18 : 20$ , then  $a : b : c =$

- (i) 55:360:400 (ii) 53:360:400 (iii) 54:360:400 (iv) 54:362:400 (v) 54:357:400

13. If  $a : b = \frac{2}{3} : \frac{9}{17}$  and  $b : c = \frac{7}{17} : \frac{7}{16}$ , then  $a : b : c =$

- (i)  $\frac{14}{51} : \frac{65}{289} : \frac{63}{272}$  (ii)  $\frac{14}{51} : \frac{63}{289} : \frac{63}{272}$  (iii)  $\frac{14}{51} : \frac{61}{289} : \frac{63}{272}$  (iv)  $\frac{2}{7} : \frac{63}{289} : \frac{63}{272}$  (v)  $\frac{14}{53} : \frac{63}{289} : \frac{63}{272}$

14. If  $a : b = \frac{4}{10} : \frac{34}{38}$  and  $b : c = \frac{18}{28} : \frac{1}{36}$ , then  $a : b : c =$

- (i)  $\frac{9}{35} : \frac{155}{266} : \frac{17}{684}$  (ii)  $\frac{9}{35} : \frac{153}{266} : \frac{17}{684}$  (iii)  $\frac{9}{37} : \frac{153}{266} : \frac{17}{684}$  (iv)  $\frac{3}{11} : \frac{153}{266} : \frac{17}{684}$  (v)  $\frac{9}{35} : \frac{151}{266} : \frac{17}{684}$

15. Find the missing value in the equation  $\underline{\hspace{1cm}} : 10 = 12 : 3$

- (i) 41 (ii) 39 (iii) 38 (iv) 40 (v) 43

16. Find the missing value in the equation  $38 : \underline{\hspace{1cm}} = 190 : 5$

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

17. Find the missing value in the equation  $32 : 8 = \underline{\hspace{1cm}} : 6$

- (i) 27 (ii) 23 (iii) 21 (iv) 24 (v) 25

18. Find the missing value in the equation  $16 : 4 = 20 : \underline{\hspace{1cm}}$

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

19. Divide 6771 in the ratio 19 : 18

- (i) 3477, 3294 (ii) 3477, 3296 (iii) 3477, 3291 (iv) 3476, 3294 (v) 3478, 3294

20. Divide 11080 in the ratio 29 : 11

- (i) 8033, 3044 (ii) 8033, 3050 (iii) 8034, 3047 (iv) 8032, 3047 (v) 8033, 3047

21. Divide 3648 in the ratio 14 : 7 : 11

- (i) 1596, 800, 1254 (ii) 1597, 798, 1254 (iii) 1596, 798, 1254 (iv) 1596, 796, 1254  
(v) 1595, 798, 1254

22. Divide 7600 in the ratio 11 : 10 : 29

- (i) 1673, 1520, 4408 (ii) 1672, 1523, 4408 (iii) 1672, 1520, 4408 (iv) 1672, 1518, 4408  
(v) 1671, 1520, 4408

23. Divide 6815 in the ratio 20 : 5 : 19 : 3

- (i) 2899, 725, 2755, 435 (ii) 2900, 727, 2755, 435 (iii) 2900, 725, 2755, 435  
(iv) 2901, 725, 2755, 435 (v) 2900, 722, 2755, 435

24. Divide 43125 in the ratio 13 : 35 : 32 : 35

- (i) 4875, 13128, 12000, 13125 (ii) 4874, 13125, 12000, 13125 (iii) 4876, 13125, 12000, 13125  
(iv) 4875, 13125, 12000, 13125 (v) 4875, 13123, 12000, 13125

25. A ratio is equal to 7 : 2. If its antecedent is 2275, what is its consequent?

- (i) 651 (ii) 649 (iii) 650 (iv) 647 (v) 653

26. A ratio is equal to 4 : 7. If its consequent is 1225, what is its antecedent?

- (i) 702 (ii) 700 (iii) 697 (iv) 699 (v) 701

27. Find the ratio between 7 months and 3 years 9 months

- (i) 7:43 (ii) 7:45 (iii) 7:47 (iv) 6:45

28. Find the number which bears the same ratio to  $\frac{4}{5}$  that  $\frac{2}{6}$  does to  $\frac{2}{5}$

- (i) 2 (ii) 0 (iii)  $\frac{2}{3}$  (iv)  $\frac{2}{5}$  (v)  $\frac{4}{3}$

29. The ascending order of 8:9, 4:7, 6:7, 3:7, 5:7 is

- (i) 3:7, 4:7, 5:7, 6:7, 8:9 (ii) 4:7, 3:7, 6:7, 8:9, 5:7 (iii) 5:7, 4:7, 3:7, 6:7, 8:9  
(iv) 3:7, 6:7, 8:9, 5:7, 4:7 (v) 4:7, 5:7, 3:7, 6:7, 8:9

30. Divide 5467 in the ratio  $\frac{7}{5} : \frac{3}{8}$

- (i) 4313, 1155 (ii) 4312, 1155 (iii) 4312, 1157 (iv) 4311, 1155 (v) 4312, 1152

31. Divide 7383 in the ratio  $\frac{3}{2} : \frac{5}{8} : \frac{7}{3}$

- (i) 2483, 1035, 3864 (ii) 2484, 1032, 3864 (iii) 2485, 1035, 3864 (iv) 2484, 1038, 3864  
(v) 2484, 1035, 3864

32. Which of the following is true?

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

33. Find the ratio between 7 months and 9 years

- (i) 6:108 (ii) 7:106 (iii) 7:111 (iv) 7:108

34. Find the ratio between 57 min and 55 hr

- (i) 19:1100 (ii) 18:1100 (iii) 19:1102 (iv) 19:1098

35. Find the ratio between 5 m and 6 km

- (i) 1:1200 (ii) 1:1202 (iii) 0:1200 (iv) 1:1198

36. Find the ratio between 8 gm and 8 kg

- (i) 0:1000 (ii) 1:1002 (iii) 1:997 (iv) 1:1000

37. Find the ratio between 4 l and 3 kl

- (i) 1:747 (ii) 0:750 (iii) 1:752 (iv) 1:750

38. Find the ratio between 19 hr and 15 days

- (i) 19:360 (ii) 19:358 (iii) 18:360 (iv) 19:362

39. Find the product of extremes of 17:11 and 8:6

- (i) 99 (ii) 102 (iii) 101 (iv) 88 (v) 105

40. Find the product of extremes of  $\frac{1}{20} : \frac{19}{10}$  and  $\frac{2}{3} : \frac{8}{13}$

- (i)  $\frac{4}{65}$  (ii)  $\frac{19}{15}$  (iii)  $\frac{2}{65}$  (iv) 0 (v)  $\frac{2}{63}$

41. Find the product of means of 11:20 and 20:19

- (i) 399 (ii) 403 (iii) 398 (iv) 400 (v) 209

42. Find the product of means of  $\frac{5}{4} : \frac{7}{15}$  and  $\frac{13}{6} : \frac{3}{14}$

- (i)  $\frac{15}{56}$  (ii)  $\frac{91}{90}$  (iii)  $\frac{89}{90}$  (iv)  $\frac{31}{30}$  (v)  $\frac{91}{88}$

43. Find the mean proportional of 18 and 2

- (i) 18 (ii) 36 (iii) 3 (iv) 6 (v) 2

44. Find the third proportional of 128 and 16

- (i) 16 (ii) 2 (iii) 128 (iv) 256 (v) (-1)

45. Find the fourth proportional of 24, 6 and 12

- (i) 3 (ii) 6 (iii) 0 (iv) 12

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

- (i) 20:5 (ii) 20:7 (iii) 21:5 (iv) 19:5 (v) 20:3

47. The ratio 4 : 5 is proportional to which of the following ratios?

- (i) 24:25 (ii) 16:10 (iii) 20:30 (iv) 12:15 (v) 8:20

## Assignment Key

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