



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

- (i) 1:6 (ii) 0:4 (iii) 4:1 (iv) 1:2 (v) 1:4

2. The ratio equivalent of the fraction $\frac{62}{19} =$

- (i) 19:62 (ii) 62:16 (iii) 61:19 (iv) 62:21 (v) 62:19

3. The fraction equivalent of the ratio 6:2 =

- (i) $\frac{6}{2}$ (ii) 6 (iii) 2 (iv) 4 (v) $\frac{2}{6}$

4. The fraction equivalent of the ratio 52:36 =

- (i) $\frac{26}{17}$ (ii) $\frac{52}{36}$ (iii) $\frac{36}{52}$ (iv) $\frac{25}{18}$ (v) $\frac{3}{2}$

5. The inverse ratio of 8:25 =

- (i) 24:8 (ii) 8:28 (iii) 8:23 (iv) 16:50 (v) 25:8

6. The antecedent in the ratio 6:14 =

- (i) 12 (ii) 6 (iii) 5 (iv) 14 (v) 8

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

- (i) $\frac{9}{11}$ (ii) 3 (iii) $\frac{9}{5}$ (iv) $\frac{11}{5}$ (v) $\frac{7}{11}$

8. The consequent in the ratio 15:8 =

- (i) 8 (ii) 15 (iii) 7 (iv) 12 (v) 11

9. The consequent in the ratio $\frac{18}{19} : \frac{20}{17} =$

- (i) $\frac{18}{19}$ (ii) $\frac{4}{3}$ (iii) $\frac{16}{19}$ (iv) $\frac{20}{17}$ (v) $\frac{22}{17}$

10. The simplest form of 4:36 =

- (i) 1:9 (ii) 1:6 (iii) 2:9 (iv) 0:9 (v) 4:39

11. If $a : b = 7 : 19$ and $b : c = 1 : 3$, then $a : b : c =$

- (i) 7:17:57 (ii) 7:19:57 (iii) 8:19:57 (iv) 6:19:57 (v) 7:21:57

12. If $a : b = 14 : 27$ and $b : c = 16 : 33$, then $a : b : c =$

- (i) 224:432:891 (ii) 223:432:891 (iii) 225:432:891 (iv) 224:435:891 (v) 224:430:891

13. If $a : b = \frac{10}{20} : \frac{10}{19}$ and $b : c = \frac{2}{3} : \frac{4}{13}$, then $a : b : c =$

- (i) $\frac{1}{3} : \frac{22}{57} : \frac{40}{247}$ (ii) $\frac{1}{5} : \frac{20}{57} : \frac{40}{247}$ (iii) $\frac{1}{3} : \frac{6}{19} : \frac{40}{247}$ (iv) $\frac{1}{3} : \frac{20}{57} : \frac{40}{247}$ (v) $1 : \frac{20}{57} : \frac{40}{247}$

14. If $a : b = \frac{10}{13} : \frac{18}{19}$ and $b : c = \frac{1}{22} : \frac{9}{16}$, then $a : b : c =$

- (i) $\frac{1}{29} : \frac{9}{209} : \frac{81}{152}$ (ii) $\frac{5}{143} : \frac{7}{209} : \frac{81}{152}$ (iii) $\frac{5}{143} : \frac{9}{209} : \frac{81}{152}$ (iv) $\frac{5}{143} : \frac{1}{19} : \frac{81}{152}$ (v) $\frac{5}{141} : \frac{9}{209} : \frac{81}{152}$

15. Find the missing value in the equation $\underline{\hspace{1cm}} : 5 = 12 : 3$

- (i) 17 (ii) 19 (iii) 20 (iv) 21 (v) 22

16. Find the missing value in the equation $4 : \underline{\hspace{1cm}} = 36 : 9$

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

17. Find the missing value in the equation $14 : 1 = \underline{\hspace{1cm}} : 7$

- (i) 100 (ii) 98 (iii) 99 (iv) 97 (v) 95

18. Find the missing value in the equation $24 : 6 = 24 : \underline{\hspace{1cm}}$

- (i) 5 (ii) 7 (iii) 6 (iv) 4 (v) 9

19. Divide 405 in the ratio 8 : 7

- (i) 216, 187 (ii) 217, 189 (iii) 215, 189 (iv) 216, 189 (v) 216, 192

20. Divide 13532 in the ratio 14 : 20

- (i) 5573, 7960 (ii) 5572, 7962 (iii) 5572, 7957 (iv) 5571, 7960 (v) 5572, 7960

21. Divide 1722 in the ratio 14 : 2 : 5

- (i) 1148, 166, 410 (ii) 1148, 164, 410 (iii) 1149, 164, 410 (iv) 1148, 162, 410 (v) 1147, 164, 410

22. Divide 26784 in the ratio 26 : 36 : 31

- (i) 7488, 10370, 8928 (ii) 7488, 10368, 8928 (iii) 7489, 10368, 8928 (iv) 7487, 10368, 8928
(v) 7488, 10365, 8928

23. Divide 6136 in the ratio 18 : 6 : 12 : 16

- (i) 2124, 710, 1416, 1888 (ii) 2124, 705, 1416, 1888 (iii) 2124, 708, 1416, 1888
(iv) 2125, 708, 1416, 1888 (v) 2123, 708, 1416, 1888

24. Divide 9288 in the ratio 16 : 10 : 18 : 28

- (i) 2064, 1288, 2322, 3612 (ii) 2064, 1292, 2322, 3612 (iii) 2064, 1290, 2322, 3612
(iv) 2065, 1290, 2322, 3612 (v) 2063, 1290, 2322, 3612

25. A ratio is equal to 63 : 25. If its antecedent is 1008, what is its consequent?

- (i) 402 (ii) 399 (iii) 400 (iv) 397 (v) 401

26. A ratio is equal to 21 : 55. If its consequent is 1320, what is its antecedent?

- (i) 501 (ii) 503 (iii) 507 (iv) 505 (v) 504

27. Find the ratio between 9 months and 6 years 9 months

- (i) 0:9 (ii) 1:12 (iii) 1:9 (iv) 1:7

28. Find the number which bears the same ratio to $\frac{1}{2}$ that $\frac{5}{7}$ does to $\frac{50}{49}$

- (i) $\frac{7}{22}$ (ii) $\frac{9}{20}$ (iii) $\frac{1}{4}$ (iv) $\frac{7}{18}$ (v) $\frac{7}{20}$

29. The ascending order of 5:6, 2:4, 1:6 is

- (i) 5:6, 1:6, 2:4 (ii) 2:4, 1:6, 5:6 (iii) 1:6, 2:4, 5:6

30. Divide 2352 in the ratio $\frac{4}{5} : \frac{4}{9}$

- (i) 1512, 842 (ii) 1512, 840 (iii) 1511, 840 (iv) 1513, 840 (v) 1512, 837

31. Divide 1365 in the ratio $\frac{3}{4} : \frac{1}{8} : \frac{7}{4}$

- (i) 389, 65, 910 (ii) 390, 67, 910 (iii) 390, 62, 910 (iv) 390, 65, 910 (v) 391, 65, 910

32. Which of the following is true?

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

33. Find the ratio between 6 months and 5 years

- (i) 0:10 (ii) 1:10 (iii) 1:13 (iv) 1:8

34. Find the ratio between 8 min and 56 hr

- (i) 1:420 (ii) 0:420 (iii) 1:418 (iv) 1:422

35. Find the ratio between 10 m and 4 km

- (i) 0:400 (ii) 1:397 (iii) 1:403 (iv) 1:400

36. Find the ratio between 3 gm and 5 kg

- (i) 3:5003 (ii) 3:5000 (iii) 3:4997 (iv) 2:5000

37. Find the ratio between 9 l and 8 kl

- (i) 8:8000 (ii) 9:7997 (iii) 9:8000 (iv) 9:8002

38. Find the ratio between 3 hr and 21 days

- (i) 1:166 (ii) 0:168 (iii) 1:170 (iv) 1:168

39. Find the product of extremes of 4:10 and 11:10

- (i) 110 (ii) 38 (iii) 43 (iv) 40 (v) 39

40. Find the product of extremes of $\frac{13}{12} : \frac{13}{19}$ and $\frac{6}{7} : \frac{1}{18}$

- (i) $\frac{5}{72}$ (ii) $\frac{13}{214}$ (iii) $\frac{13}{216}$ (iv) $\frac{11}{216}$ (v) $\frac{78}{133}$

41. Find the product of means of 20:18 and 20:12

- (i) 240 (ii) 358 (iii) 362 (iv) 359 (v) 360

42. Find the product of means of $\frac{11}{17} : \frac{15}{2}$ and $\frac{19}{5} : \frac{11}{3}$

- (i) $\frac{121}{51}$ (ii) 57 (iii) $\frac{57}{2}$ (iv) $\frac{59}{2}$ (v) $\frac{55}{2}$

43. Find the mean proportional of 75 and 3

- (i) 75 (ii) 15 (iii) 225 (iv) 12 (v) 3

44. Find the third proportional of 72 and 12

- (i) 144 (ii) 12 (iii) 72 (iv) (-1) (v) 2

45. Find the fourth proportional of 20, 5 and 24

- (i) 6 (ii) 24 (iii) 4 (iv) 5 (v) 8

46. Which of the ratios is proportional to 36 : 9?

- (i) 31:8 (ii) 32:11 (iii) 32:8 (iv) 32:5 (v) 33:8

47. The ratio 2 : 5 is proportional to which of the following ratios?

- (i) 10:15 (ii) 8:10 (iii) 4:20 (iv) 6:25 (v) 12:30

Assignment Key

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