EduSahara™ Assignment

Name : Ratio and Proportion Concepts

Chapter : Comparing Quantities using Proportion

Grade : SSC Grade VIII

1. The ratio equivalent of the fraction $\frac{6}{7}$ =

   (i) 5:7 (ii) 6:4 (iii) 6:7 (iv) 7:6 (v) 6:10

2. The ratio equivalent of the fraction $\frac{43}{14}$ =

   (i) 43:12 (ii) 43:16 (iii) 42:14 (iv) 43:14 (v) 14:43

3. The fraction equivalent of the ratio 10:6 =

   (i) $\frac{4}{3}$ (ii) $\frac{5}{2}$ (iii) $\frac{6}{10}$ (iv) $\frac{10}{6}$ (v) 2

4. The fraction equivalent of the ratio 44:93 =

   (i) $\frac{93}{44}$ (ii) $\frac{44}{93}$ (iii) $\frac{14}{31}$ (iv) $\frac{44}{91}$ (v) $\frac{46}{93}$

5. The antecendent in the ratio 5:1 =

   (i) 1 (ii) -2 (iii) 4 (iv) 5 (v) 8

6. The antecendent in the ratio $\frac{11}{3} : \frac{15}{4}$ =

   (i) $\frac{11}{3}$ (ii) $\frac{13}{4}$ (iii) $\frac{13}{3}$ (iv) $\frac{15}{4}$ (v) 11

7. The consequent in the ratio 4:5 =

   (i) 5 (ii) 7 (iii) 2 (iv) 4

8. The consequent in the ratio $\frac{8}{15} : \frac{13}{16}$ =

   (i) $\frac{13}{14}$ (ii) $\frac{15}{16}$ (iii) $\frac{13}{16}$ (iv) $\frac{2}{5}$ (v) $\frac{8}{15}$

9. The simplest form of 972:324 =

   (i) 3:1 (ii) 4:1 (iii) 972:327 (iv) 2:1 (v) 3:-2

10. Find the product of extremes of 5:16 and 12:8

    (i) 38 (ii) 42 (iii) 192 (iv) 39 (v) 40

11. Find the product of extremes of $\frac{4}{15} : \frac{16}{11}$ and $\frac{17}{5} : \frac{12}{5}$

(i) $\frac{18}{25}$ (ii) $\frac{16}{25}$ (iii) $\frac{16}{23}$ (iv) $\frac{14}{25}$ (v) $\frac{272}{55}$

12. The ages of A and B are in the ratio 5 : 9. 8 years hence, their ages will be in the ratio 3 : 5. Find their present ages.

(i) 30 : 54 (ii) 40 : 72 (iii) 50 : 90 (iv) 35 : 63

13. The ages of A and B are in the ratio 8 : 5. 7 years ago, their ages were in the ratio 7 : 4. Find their present ages.

(i) 72 : 45 (ii) 48 : 30 (iii) 56 : 35 (iv) 40 : 25

14. The inverse ratio of $2 : 23$ =

(i) 2 : 25 (ii) 12 : 138 (iii) 23 : 2 (iv) 2 : 20 (v) 22 : 2

15. Find the missing value in the equation $\_\_\_\_ : 1 = 42 : 3$

(i) 13 (ii) 15 (iii) 14 (iv) 17 (v) 11

16. Find the missing value in the equation $18 : \_\_\_\_ = 30 : 5$

(i) 5 (ii) 3 (iii) 2 (iv) 0 (v) 4

17. Find the missing value in the equation $12 : 3 = \_\_\_\_ : 4$

(i) 13 (ii) 18 (iii) 15 (iv) 17 (v) 16

18. Find the missing value in the equation $4 : 1 = 32 : \_\_\_\_$

(i) 9 (ii) 7 (iii) 11 (iv) 5 (v) 8

19. Find the product of means of $12 : 17$ and $12 : 20$

(i) 203 (ii) 240 (iii) 207 (iv) 204 (v) 202

20. Find the product of means of $\frac{3}{5} : \frac{3}{17}$ and $\frac{3}{7} : \frac{1}{3}$

(i) $\frac{1}{5}$ (ii) $\frac{1}{17}$ (iii) $\frac{11}{119}$ (iv) $\frac{9}{119}$ (v) $\frac{1}{13}$

21. Which of the ratios is proportional to 24 : 6?

(i) 13 : 3 (ii) 12 : 0 (iii) 12 : 3 (iv) 11 : 3 (v) 12 : 5

22. Divide 912 in the ratio 9 : 7

(i) 513 , 396 (ii) 514 , 399 (iii) 513 , 401 (iv) 513 , 399 (v) 512 , 399

23. Divide 17544 in the ratio 28 : 40

(i) 7224 , 10323 (ii) 7224 , 10317 (iii) 7225 , 10320 (iv) 7224 , 10320 (v) 7223 , 10320

24. Divide 513 in the ratio 1 : 10 : 16

(i) 19 , 193 , 304 (ii) 19 , 187 , 304 (iii) 19 , 190 , 304 (iv) 20 , 190 , 304 (v) 18 , 190 , 304

25. Divide 8475 in the ratio 28 : 31 : 16

(i) 3164 , 3503 , 1808 (ii) 3163 , 3503 , 1808 (iii) 3164 , 3506 , 1808 (iv) 3164 , 3501 , 1808

(v) 3165 , 3503 , 1808

26. Find the compound ratio of $4:14$ and $15:18$

(i) $60:250$ (ii) $61:252$ (iii) $60:254$ (iv) $59:252$ (v) $60:252$

27. A ratio is equal to 14 : 5. If its antecendent is 2100, what is its consequent?

(i) 748 (ii) 753 (iii) 751 (iv) 749 (v) 750

28. A ratio is equal to 3 : 13. If its consequent is 8190, what is its antecendent?

(i) 1891 (ii) 1889 (iii) 1890 (iv) 1888 (v) 1892

29. Find the ratio between 3 months and 3 years 5 months

(i) $2:41$ (ii) $3:41$ (iii) $3:43$ (iv) $3:39$

30. Find the number which bears the same ratio to $\frac{2}{4}$ that $\frac{4}{8}$ does to $\frac{7}{12}$

(i) $\frac{5}{7}$ (ii) $\frac{3}{5}$ (iii) $\frac{1}{3}$ (iv) $\frac{3}{7}$ (v) $\frac{1}{7}$

31. Divide 741 in the ratio $\frac{1}{2} : \frac{2}{9}$

(i) 513 , 230 (ii) 514 , 228 (iii) 512 , 228 (iv) 513 , 228 (v) 513 , 226

32. Find the compounded ratio of $i:p$ and $o:x$

(i) o : ip (ii) xo : ip (iii) io:px (iv) p : ox (v) ip : ox

33. A certain amount has been divided into two parts in the ratio 8 : 4. If the first part is 184, find the total amount.

(i) 279 (ii) 274 (iii) 275 (iv) 276 (v) 277

34. Two numbers are in the ratio 9 : 2 and their difference is 147. Find the numbers.

(i) 188,42 (ii) 190,42 (iii) 189,40 (iv) 189,42 (v) 189,44

35. In an examination, the ratio of passes to failures was 9 : 5.
Had 65 less appeared and 5 less passed, the ratio of passes to failures would have been 89 : 38.
How many students appeared for the examination?

(i) 710 (ii) 695 (iii) 690 (iv) 705 (v) 700

36. In a company, the number of engineers to managers is in the ratio 5 : 3 . After a year, when 20 engineers and 5 managers left, the ratio between engineers to managers is 36 : 23 . Find the number of engineers and managers at the beginning?

(i) 330 (ii) 340 (iii) 310 (iv) 320 (v) 300

37. Find the ratio between 4 months and 9 years

(i) $0:27$ (ii) $1:30$ (iii) $1:24$ (iv) $1:27$

38. Find the ratio between 12 min and 50 hr

(i) 0:250 (ii) 1:248 (iii) 1:253 (iv) 1:250

39. Find the ratio between 4 m and 4 km

(i) 1:1000 (ii) 1:998 (iii) 1:1003 (iv) 0:1000

40. Find the ratio between 3 gm and 9 kg

(i) 1:3002 (ii) 1:2997 (iii) 0:3000 (iv) 1:3000

41. Find the ratio between 6 l and 6 kl

(i) 1:1003 (ii) 1:1000 (iii) 0:1000 (iv) 1:998

42. Find the ratio between 21 hr and 17 days

(i) 6:136 (ii) 7:138 (iii) 7:133 (iv) 7:136

Assignment Key

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