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

2. The ratio equivalent of the fraction $\frac{47}{37}$ =

   (i) 47:35 (ii) 47:37 (iii) 37:47 (iv) 46:37 (v) 47:39

3. The fraction equivalent of the ratio 5:7 =

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

4. The fraction equivalent of the ratio 56:92 =

   (i) $\frac{92}{56}$ (ii) $\frac{28}{45}$ (iii) $\frac{56}{92}$ (iv) $\frac{29}{46}$ (v) $\frac{27}{46}$

5. The antecendent in the ratio 17:13 =

   (i) 16 (ii) 13 (iii) 19 (iv) 17 (v) 11

6. The antecendent in the ratio $\frac{10}{17} : \frac{3}{14}$ =

   (i) $\frac{1}{14}$ (ii) $\frac{3}{14}$ (iii) $\frac{2}{3}$ (iv) $\frac{10}{17}$ (v) $\frac{12}{17}$

7. The consequent in the ratio 15:1 =

   (i) 0 (ii) 13 (iii) 4 (iv) 1 (v) 15

8. The consequent in the ratio $\frac{19}{12} : \frac{8}{3}$ =

   (i) 8 (ii) $\frac{8}{3}$ (iii) $\frac{17}{12}$ (iv) $\frac{10}{3}$ (v) $\frac{19}{12}$

9. The simplest form of 56:49 =

   (i) 9:7 (ii) 7:7 (iii) 8:5 (iv) 8:7 (v) 56:52

10. Find the product of extremes of 12:3 and 14:15

    (i) 178 (ii) 179 (iii) 183 (iv) 42 (v) 180

11. Find the product of extremes of $\frac{20}{3} : \frac{4}{9}$ and $\frac{8}{17} : \frac{16}{7}$

(i) $\frac{320}{21}$ (ii) $\frac{106}{7}$ (iii) $\frac{32}{153}$ (iv) $\frac{46}{3}$ (v) $\frac{320}{19}$

12. The ages of A and B are in the ratio 10 : 7. 6 years hence, their ages will be in the ratio 11 : 8. Find their present ages.

(i) 80:56 (ii) 60:42 (iii) 50:35 (iv) 40:28

13. The ages of A and B are in the ratio 9 : 10. 6 years ago, their ages were in the ratio 8 : 9. Find their present ages.

(i) 36:40 (ii) 72:80 (iii) 54:60 (iv) 45:50

14. The inverse ratio of 7:20 =

(i) 19:7 (ii) 7:18 (iii) 49:140 (iv) 7:22 (v) 20:7

15. Find the missing value in the equation ___:1=12:6

(i) (-1) (ii) 1 (iii) 3 (iv) 5 (v) 2

16. Find the missing value in the equation 36:___=36:9

(i) 8 (ii) 10 (iii) 9 (iv) 11 (v) 7

17. Find the missing value in the equation 28:7=___:9

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

18. Find the missing value in the equation 26:1=234:___

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

19. Find the product of means of 15:11 and 19:11

(i) 165 (ii) 211 (iii) 207 (iv) 209 (v) 208

20. Find the product of means of $\frac{1}{3} : \frac{5}{6}$ and $\frac{1}{2} : \frac{16}{13}$

(i) $\frac{5}{12}$ (ii) $\frac{1}{2}$ (iii) $\frac{7}{12}$ (iv) $\frac{1}{4}$ (v) $\frac{16}{39}$

21. Which of the ratios is proportional to 20 : 5?

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

22. Divide 3354 in the ratio 8 : 18

(i) 1033 , 2322 (ii) 1032 , 2325 (iii) 1032 , 2322 (iv) 1031 , 2322 (v) 1032 , 2319

23. Divide 6232 in the ratio 12 : 29

(i) 1824 , 4408 (ii) 1825 , 4408 (iii) 1823 , 4408 (iv) 1824 , 4410 (v) 1824 , 4405

24. Divide 1900 in the ratio 11 : 1 : 8

(i) 1046 , 95 , 760 (ii) 1045 , 92 , 760 (iii) 1045 , 98 , 760 (iv) 1045 , 95 , 760 (v) 1044 , 95 , 760

25. Divide 22200 in the ratio 26 : 14 : 20

(i) 9621 , 5180 , 7400 (ii) 9619 , 5180 , 7400 (iii) 9620 , 5183 , 7400 (iv) 9620 , 5180 , 7400

(v) 9620 , 5178 , 7400

26. Find the compound ratio of $9:14$ and $8:13$

(i) $72:179$ (ii) $72:184$ (iii) $71:182$ (iv) $72:182$ (v) $73:182$

27. A ratio is equal to 7 : 3. If its antecendent is 4410, what is its consequent?

(i) 1890 (ii) 1889 (iii) 1893 (iv) 1887 (v) 1891

28. A ratio is equal to 7 : 10. If its consequent is 5250, what is its antecendent?

(i) 3674 (ii) 3676 (iii) 3672 (iv) 3677 (v) 3675

29. Find the ratio between 2 months and 4 years 9 months

(i) $2:54$ (ii) $2:57$ (iii) $1:57$ (iv) $2:60$

30. Find the number which bears the same ratio to $\frac{6}{8}$ that $\frac{1}{3}$ does to $\frac{9}{26}$

(i) $\frac{13}{16}$ (ii) $\frac{5}{6}$ (iii) $\frac{13}{18}$ (iv) $\frac{11}{18}$ (v) $\frac{13}{20}$

31. Divide 2346 in the ratio $\frac{3}{5} : \frac{9}{8}$

(i) 816 , 1533 (ii) 817 , 1530 (iii) 816 , 1530 (iv) 815 , 1530 (v) 816 , 1528

32. Find the compounded ratio of $g:b$ and $q:z$

(i) b : qz (ii) zq : gb (iii) q : gb (iv) gb : qz (v) gq:bz

33. A certain amount has been divided into two parts in the ratio 3 : 6. If the first part is 105, find the total amount.

(i) 315 (ii) 314 (iii) 313 (iv) 317 (v) 316

34. Two numbers are in the ratio 4 : 1 and their difference is 84. Find the numbers.

(i) 112,31 (ii) 113,28 (iii) 112,28 (iv) 112,26 (v) 111,28

In an examination, the ratio of passes to failures was 4 : 3.
35. Had 30 less appeared and 20 less passed, the ratio of passes to failures would have been 14 : 11.
How many students appeared for the examination?

(i) 275 (ii) 270 (iii) 280 (iv) 285 (v) 290

In a company, the number of engineers to managers is in the ratio 2 : 1 . After a year, when 15 engineers and 20
36. managers left, the ratio between engineers to managers is 29 : 12 . Find the number of engineers and managers at the beginning?

(i) 250 (ii) 240 (iii) 260 (iv) 230 (v) 220

37. Find the ratio between 9 months and 8 years

(i) $3:30$ (ii) $2:32$ (iii) $3:35$ (iv) $3:32$

38. Find the ratio between 27 min and 11 hr

(i) 8:220 (ii) 9:217 (iii) 9:220 (iv) 9:222

39. Find the ratio between 6 m and 10 km

(i) 3:5002 (ii) 3:4997 (iii) 2:5000 (iv) 3:5000

40. Find the ratio between 3 gm and 4 kg

(i) 3:4000 (ii) 2:4000 (iii) 3:4003 (iv) 3:3998

41. Find the ratio between 8 l and 7 kl

(i) 0:875 (ii) 1:875 (iii) 1:873 (iv) 1:878

42. Find the ratio between 3 hr and 18 days

(i) 1:141 (ii) 1:144 (iii) 1:147 (iv) 0:144

Assignment Key

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