EduSahara™ Learning Center Assignment

Grade   : Class VIII, SSC
Chapter   : Comparing Quantities using Proportion
Name   : Ratio and Proportion Concepts
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1. The ratio equivalent of the fraction $\dfrac{8}{9}$ =

   (i) 8 : 9 (ii) 9 : 8 (iii) 8 : 6 (iv) 7 : 9 (v) 8 : 12

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2. The ratio equivalent of the fraction $\dfrac{16}{57}$ =

   (i) 15 : 57 (ii) 16 : 57 (iii) 16 : 60 (iv) 57 : 16 (v) 16 : 55

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

   (i) $\left(\dfrac{-1}{3}\right)$ (ii) $\dfrac{1}{3}$ (iii) 1 (iv) $\dfrac{3}{1}$

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4. The fraction equivalent of the ratio 72 : 33 =

   (i) $\dfrac{72}{31}$ (ii) $\dfrac{70}{33}$ (iii) $\dfrac{33}{72}$ (iv) $\dfrac{74}{33}$ (v) $\dfrac{72}{33}$

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5. The antecendent in the ratio 4 : 17 =

   (i) 4 (ii) 14 (iii) 7 (iv) 3 (v) 17

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6. The antecendent in the ratio $\dfrac{13}{5}$: $\dfrac{4}{7}$ =

   (i) $\dfrac{13}{3}$ (ii) 3 (iii) $\dfrac{13}{5}$ (iv) $\dfrac{4}{7}$ (v) $\dfrac{2}{7}$

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7. The consequent in the ratio 8 : 9 =

   (i) 12 (ii) 8 (iii) 9 (iv) 5

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8. The consequent in the ratio $\dfrac{2}{5}$: $\dfrac{13}{12}$ =

(i) $\frac{2}{5}$ (ii) 0 (iii) $\frac{5}{4}$ (iv) $\frac{13}{12}$ (v) $\frac{13}{10}$

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9. The simplest form of 98 : 70 =

(i) 98 : 72 (ii) 6 : 5 (iii) 7 : 2 (iv) 8 : 5 (v) 7 : 5

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10. Find the product of extremes of 16 : 8 and 1 : 13

(i) 210 (ii) 8 (iii) 207 (iv) 208 (v) 206

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11. Find the product of extremes of $\frac{2}{7} : \frac{5}{19}$ and $\frac{15}{14} : \frac{1}{11}$

(i) $\frac{4}{77}$ (ii) $\frac{75}{266}$ (iii) 0 (iv) $\frac{2}{75}$ (v) $\frac{2}{77}$

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

(i) 80 : 56 (ii) 100 : 70 (iii) 70 : 49 (iv) 60 : 42

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13. The ages of A and B are in the ratio 7 : 9. 5 years ago, their ages were in the ratio 3 : 4. Find their present ages

(i) 28 : 36 (ii) 35 : 45 (iii) 49 : 63 (iv) 21 : 27

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14. The inverse ratio of 21 : 17 =

(i) 16 : 21 (ii) 189 : 153 (iii) 21 : 19 (iv) 21 : 14 (v) 17 : 21

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15. Find the missing value in the equation ____ : 4 = 30 : 5

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

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16. Find the missing value in the equation 42 : ____ = 30 : 5

(i) 5 (ii) 6 (iii) 7 (iv) 10 (v) 8

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17. Find the missing value in the equation 18 : 3 = ____ : 4

(i) 26 (ii) 23 (iii) 25 (iv) 22 (v) 24

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18. Find the missing value in the equation $10 : 1 = 40 : \_\_\_\_$

    (i) 4 (ii) 3 (iii) 5 (iv) 6 (v) 2

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19. Find the product of means of 17 : 9 and 20 : 19

    (i) 323 (ii) 180 (iii) 183 (iv) 179 (v) 178

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20. Find the product of means of $\dfrac{15}{11} : \dfrac{19}{13}$ and $\dfrac{3}{11} : \dfrac{19}{17}$

    (i) $\dfrac{59}{143}$ (ii) $\dfrac{285}{187}$ (iii) $\dfrac{57}{143}$ (iv) $\dfrac{5}{13}$ (v) $\dfrac{19}{47}$

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

    (i) 28 : 9 (ii) 29 : 7 (iii) 28 : 4 (iv) 27 : 7 (v) 28 : 7

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22. Divide 2349 in the ratio 14 : 15

    (i)   1134 , 1218
    (ii) 1133 , 1215
    (iii) 1134 , 1215
    (iv) 1134 , 1213
    (v) 1135 , 1215

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23. Divide 8077 in the ratio 28 : 13

    (i)   5516 , 2561
    (ii) 5517 , 2561
    (iii) 5516 , 2559
    (iv) 5516 , 2564
    (v) 5515 , 2561

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24. Divide 3048 in the ratio 7 : 8 : 9

    (i)   888 , 1016 , 1143
    (ii) 889 , 1018 , 1143

    (iii) 889 , 1016 , 1143

    (iv) 889 , 1014 , 1143

    (v) 890 , 1016 , 1143

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25. Divide 27971 in the ratio 18 : 25 : 40

    (i)   6066 , 8425 , 13480

    (ii) 6066 , 8427 , 13480

    (iii) 6066 , 8422 , 13480

    (iv) 6065 , 8425 , 13480

    (v) 6067 , 8425 , 13480

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26. Find the compound ratio of 15 : 19 and 6 : 10

    (i) 90 : 192   (ii) 90 : 188   (iii) 91 : 190   (iv) 90 : 190   (v) 89 : 190

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27. A ratio is equal to 7 : 4 . If its antecendent is 6160 , what is its consequent?

    (i) 3523 (ii) 3517 (iii) 3520 (iv) 3521 (v) 3519

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28. A ratio is equal to 3 : 1 . If its consequent is 1925 , what is its antecendent?

    (i) 5777 (ii) 5776 (iii) 5775 (iv) 5772 (v) 5774

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29. Find the ratio between 6 months and 6 years 6 months

    (i) 0 : 13   (ii) 1 : 13   (iii) 1 : 10   (iv) 1 : 16

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30. Find the number which bears the same ratio to $\frac{1}{2}$ that $\frac{1}{3}$ does to $\frac{11}{60}$

    (i) $\frac{10}{13}$ (ii) $\frac{8}{11}$ (iii) $\frac{10}{11}$ (iv) $\frac{10}{9}$ (v) $\frac{12}{11}$

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31. Divide 4818 in the ratio $\frac{9}{7} : \frac{3}{5}$

    (i)   3285 , 1531 (ii) 3285 , 1535 (iii) 3286 , 1533

    (iv) 3285 , 1533 (v) 3284 , 1533

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32. Find the compounded ratio of f : w and p : y

   (i) p : fw (ii) w : py (iii) fw : py (iv) yp : fw (v) f p : w y

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33. A certain amount has been divided into two parts in the ratio 4 : 8 .

   If the first part is 152 , find the total amount

   (i) 459 (ii) 455 (iii) 454 (iv) 456 (v) 457

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34. Two numbers are in the ratio 2 : 1 and

   their difference is 25 . Find the numbers

   (i) 50,23 (ii) 50,25 (iii) 51,25 (iv) 50,28 (v) 49,25

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35. In an examination, the ratio of passes to failures was 8 : 7.

   Had 55 less appeared and 10 less passed, the ratio of passes to failures would have been 78 : 61.

   How many students appeared for the examination?

   (i) 745 (ii) 750 (iii) 740 (iv) 760 (v) 755

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36. In a company, the number of engineers to managers is in the ratio 9 : 2 . After a year, when 10 engineers and 15 managers left, the ratio between engineers to managers is 70 : 13 . Find the number of engineers and managers at the beginning?

   (i) 460 (ii) 440 (iii) 450 (iv) 420 (v) 430

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37. Find the ratio between 4 months and 3 years

   (i) 1 : 9 (ii) 0 : 9 (iii) 1 : 7 (iv) 1 : 11

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38. Find the ratio between 59 min. and 27 hrs

   (i) 59 : 1620 (ii) 58 : 1620 (iii) 59 : 1617 (iv) 59 : 1622

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39. Find the ratio between 10 mt and 6 km

   (i) 0 : 600 (ii) 1 : 600 (iii) 1 : 597 (iv) 1 : 602

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40. Find the ratio between 4 gm and 7 kg

(i) 1 : 1752 (ii) 0 : 1750 (iii) 1 : 1750 (iv) 1 : 1747

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41. Find the ratio between 9 lt and 10 kl

(i) 8 : 10000 (ii) 9 : 9997 (iii) 9 : 10002 (iv) 9 : 10000

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42. Find the ratio between 12 hrs and 7 days

(i) 1 : 14 (ii) 1 : 17 (iii) 0 : 14 (iv) 1 : 12

Assignment Key

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

37) (i)
38) (i)
39) (ii)
40) (iii)
41) (iv)
42) (i)