

EduSahara™ Learning Center Assignment**Grade : Class X, ICSE****Chapter : Ratio****Name : Ratio Concepts**

1. The ratio equivalent of the fraction $\frac{4}{7} =$

- (i) 4 : 4 (ii) 4 : 7 (iii) 7 : 4 (iv) 4 : 10 (v) 3 : 7
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2. The ratio equivalent of the fraction $\frac{33}{16} =$

- (i) 33 : 18 (ii) 32 : 16 (iii) 33 : 16 (iv) 33 : 13 (v) 16 : 33
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3. The fraction equivalent of the ratio 8 : 5 =

- (i) $\frac{5}{8}$ (ii) $\frac{8}{5}$ (iii) 2 (iv) $\frac{8}{3}$ (v) $\frac{6}{5}$
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4. The fraction equivalent of the ratio 16 : 50 =

- (i) $\frac{7}{25}$ (ii) $\frac{9}{25}$ (iii) $\frac{50}{16}$ (iv) $\frac{16}{50}$ (v) $\frac{1}{3}$
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5. The inverse ratio of 5 : 17 =

- (i) 15 : 51 (ii) 17 : 5 (iii) 16 : 5 (iv) 5 : 20 (v) 5 : 15
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6. The antecedent in the ratio 3 : 9 =

- (i) 2 (ii) 9 (iii) 5 (iv) 6 (v) 3
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7. The antecedent in the ratio $\frac{12}{19} : \frac{8}{7} =$

- (i) $\frac{12}{17}$ (ii) $\frac{12}{19}$ (iii) $\frac{14}{19}$ (iv) $\frac{6}{7}$ (v) $\frac{8}{7}$
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8. The consequent in the ratio 15 : 10 =

- (i) 10 (ii) 15 (iii) 9 (iv) 12 (v) 13
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9. The consequent in the ratio $\frac{13}{20} : \frac{1}{2} =$

- (i) $\frac{13}{20}$ (ii) $\frac{1}{2}$ (iii) $\frac{11}{20}$ (iv) 1 (v) $\frac{3}{2}$
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10. The simplest form of 132 : 96 =

- (i) 12 : 8 (ii) 10 : 8 (iii) 11 : 8 (iv) 11 : 5 (v) 132 : 99

11. If $a : b = 8 : 9$ and $b : c = 7 : 12$, then $a : b : c =$

- (i) $56 : 66 : 108$ (ii) $57 : 63 : 108$ (iii) $55 : 63 : 108$
(iv) $56 : 63 : 108$ (v) $56 : 61 : 108$
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12. If $a : b = 12 : 25$ and $b : c = 8 : 31$, then $a : b : c =$

- (i) $96 : 197 : 775$ (ii) $95 : 200 : 775$ (iii) $96 : 203 : 775$
(iv) $96 : 200 : 775$ (v) $97 : 200 : 775$
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13. If $a : b = \frac{8}{13} : \frac{8}{10}$ and $b : c = \frac{1}{2} : \frac{1}{2}$, then $a : b : c =$

- (i) $\frac{4}{13} : \frac{4}{5} : \frac{2}{5}$ (ii) $\frac{4}{13} : \frac{2}{5} : \frac{2}{5}$ (iii) $\frac{4}{15} : \frac{2}{5} : \frac{2}{5}$
(iv) $\frac{4}{13} : 0 : \frac{2}{5}$ (v) $\frac{4}{11} : \frac{2}{5} : \frac{2}{5}$
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14. If $a : b = \frac{17}{18} : \frac{15}{35}$ and $b : c = \frac{26}{32} : \frac{4}{26}$, then $a : b : c =$

- (i) $\frac{221}{288} : \frac{37}{112} : \frac{6}{91}$ (ii) $\frac{221}{288} : \frac{41}{112} : \frac{6}{91}$ (iii) $\frac{221}{290} : \frac{39}{112} : \frac{6}{91}$
(iv) $\frac{221}{288} : \frac{39}{112} : \frac{6}{91}$ (v) $\frac{17}{22} : \frac{39}{112} : \frac{6}{91}$
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15. Find the missing value in the equation $____ : 1 = 132 : 6$

- (i) 25 (ii) 23 (iii) 22 (iv) 19 (v) 21
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16. Find the missing value in the equation $6 : ____ = 18 : 3$

- (i) 2 (ii) 3 (iii) 1 (iv) 0 (v) (-2)
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17. Find the missing value in the equation $2 : 1 = ____ : 7$

- (i) 15 (ii) 17 (iii) 13 (iv) 11 (v) 14
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18. Find the missing value in the equation $12 : 3 = 36 : ____$

- (i) 11 (ii) 10 (iii) 9 (iv) 7 (v) 8
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19. Divide 4080 in the ratio 14 : 20

- (i) 1680, 2400
(ii) 1679, 2400
(iii) 1681, 2400
(iv) 1680, 2403
(v) 1680, 2398
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20. Divide 17487 in the ratio 36 : 31

- (i) 9397 , 8091
 - (ii) 9396 , 8093
 - (iii) 9396 , 8089
 - (iv) 9396 , 8091
 - (v) 9395 , 8091
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21. Divide 1156 in the ratio 15 : 7 : 12

- (i) 510 , 235 , 408
 - (ii) 510 , 240 , 408
 - (iii) 511 , 238 , 408
 - (iv) 509 , 238 , 408
 - (v) 510 , 238 , 408
-

22. Divide 7920 in the ratio 34 : 22 : 16

- (i) 3739 , 2420 , 1760
 - (ii) 3740 , 2423 , 1760
 - (iii) 3741 , 2420 , 1760
 - (iv) 3740 , 2417 , 1760
 - (v) 3740 , 2420 , 1760
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23. Divide 9250 in the ratio 2 : 13 : 19 : 16

- (i) 370 , 2402 , 3515 , 2960
 - (ii) 370 , 2405 , 3515 , 2960
 - (iii) 369 , 2405 , 3515 , 2960
 - (iv) 371 , 2405 , 3515 , 2960
 - (v) 370 , 2408 , 3515 , 2960
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24. Divide 36050 in the ratio 16 : 32 : 23 : 32

- (i) 5599 , 11200 , 8050 , 11200
 - (ii) 5601 , 11200 , 8050 , 11200
 - (iii) 5600 , 11198 , 8050 , 11200
 - (iv) 5600 , 11200 , 8050 , 11200
 - (v) 5600 , 11203 , 8050 , 11200
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25. A ratio is equal to 2 : 65 . If its antecedent is 140 , what is its consequent?

(i) 4550 (ii) 4549 (iii) 4553 (iv) 4551 (v) 4547

26. A ratio is equal to $14 : 33$. If its consequent is 3135, what is its antecedent?

(i) 1331 (ii) 1330 (iii) 1333 (iv) 1329 (v) 1328

27. Find the ratio between 5 months and 6 years 2 months

(i) $5 : 74$ (ii) $4 : 74$ (iii) $5 : 71$ (iv) $5 : 77$

28. Find the number which bears the same ratio to $\frac{1}{3}$ that $\frac{2}{3}$ does to $\frac{8}{9}$

(i) $\frac{1}{2}$ (ii) $\frac{3}{4}$ (iii) $\frac{1}{6}$ (iv) $\frac{1}{4}$ (v) $(-\frac{1}{4})$

29. The ascending order of $1 : 2$, $2 : 6$, $5 : 9$, $1 : 6$, $1 : 3$, $6 : 8$ is

(i) $1 : 3$, $6 : 8$, $2 : 6$, $1 : 2$, $5 : 9$, $1 : 6$

(ii) $6 : 8$, $1 : 6$, $5 : 9$, $1 : 3$, $2 : 6$, $1 : 2$

(iii) $6 : 8$, $2 : 6$, $1 : 2$, $5 : 9$, $1 : 6$, $1 : 3$

(iv) $1 : 2$, $6 : 8$, $1 : 3$, $1 : 6$, $5 : 9$, $2 : 6$

(v) $1 : 6$, $2 : 6$, $1 : 3$, $1 : 2$, $5 : 9$, $6 : 8$

30. Divide 408 in the ratio $\frac{5}{2} : \frac{1}{3}$

(i) 361, 48 (ii) 359, 48 (iii) 360, 45

(iv) 360, 51 (v) 360, 48

31. Divide 10780 in the ratio $\frac{9}{7} : \frac{7}{2} : \frac{5}{7}$

(i) 2520, 6860, 1400

(ii) 2521, 6860, 1400

(iii) 2520, 6862, 1400

(iv) 2520, 6858, 1400

(v) 2519, 6860, 1400

32. Which of the following is true?

(i) $5 : 2 > 3 : 1$ (ii) $9 : 1 < 9 : 8$ (iii) $4 : 3 < 9 : 8$

(iv) $7 : 2 > 3 : 2$ (v) $3 : 1 > 9 : 1$

33. Find the ratio between 6 months and 10 years

(i) $0 : 20$ (ii) $1 : 20$ (iii) $1 : 23$ (iv) $1 : 18$

34. Find the ratio between 8 min. and 6 hrs

- (i) 1 : 48 (ii) 0 : 45 (iii) 1 : 43 (iv) 1 : 45
-

35. Find the ratio between 9 mt and 8 km

- (i) 9 : 8003 (ii) 8 : 8000 (iii) 9 : 7998 (iv) 9 : 8000
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36. Find the ratio between 4 gm and 9 kg

- (i) 1 : 2247 (ii) 1 : 2250 (iii) 0 : 2250 (iv) 1 : 2253
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37. Find the ratio between 10 lt and 6 kl

- (i) 1 : 600 (ii) 0 : 600 (iii) 1 : 597 (iv) 1 : 603
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38. Find the ratio between 20 hrs and 5 days

- (i) 1 : 9 (ii) 0 : 6 (iii) 1 : 6 (iv) 1 : 3
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39. Find the product of extremes of 19 : 13 and 4 : 8

- (i) 52 (ii) 151 (iii) 154 (iv) 150 (v) 152
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40. Find the product of extremes of $\frac{13}{18} : \frac{19}{8}$ and $\frac{11}{16} : \frac{9}{10}$

- (i) $\frac{13}{18}$ (ii) $\frac{3}{4}$ (iii) $\frac{13}{20}$ (iv) $\frac{209}{128}$ (v) $\frac{11}{20}$
-

41. Find the product of means of 9 : 6 and 10 : 14

- (i) 59 (ii) 63 (iii) 126 (iv) 58 (v) 60
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42. Find the product of means of $\frac{17}{7} : \frac{18}{19}$ and $\frac{13}{9} : \frac{7}{18}$

- (i) $\frac{17}{18}$ (ii) $\frac{26}{17}$ (iii) $\frac{26}{19}$ (iv) $\frac{24}{19}$ (v) $\frac{28}{19}$
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43. Find the mean proportional of 8 and 2

- (i) 2 (ii) 16 (iii) 8 (iv) 4
-

44. Find the third proportional of 50 and 10

- (i) 100 (ii) 2 (iii) 10 (iv) (-1) (v) 50
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45. Find the fourth proportional of 20, 5 and 24

- (i) 6 (ii) 9 (iii) 5 (iv) 24 (v) 4
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46.

Which of the ratios is proportional to $12 : 2$?

- (i) $18 : 5$ (ii) $18 : 3$ (iii) $17 : 3$ (iv) $19 : 3$ (v) $18 : 0$
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47. The ratio $2 : 5$ is proportional to which of the following ratios ?

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

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