

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Ratio and Proportion****Name : Ratio Concepts****Licensed To : Teachers and Students for non-commercial use**

1. Find the ratio between 8 months and 5 years 3 months

(i) 8 : 61 (ii) 7 : 63 (iii) 8 : 63 (iv) 8 : 65

2. Divide 6161 in the ratio $\frac{7}{5} : \frac{9}{8}$

(i) 3416 , 2748 (ii) 3415 , 2745 (iii) 3416 , 2742
(iv) 3416 , 2745 (v) 3417 , 2745

3. Divide 3825 in the ratio $\frac{7}{9} : \frac{1}{4} : \frac{4}{3}$

(i) 1260 , 407 , 2160
(ii) 1259 , 405 , 2160
(iii) 1260 , 403 , 2160
(iv) 1261 , 405 , 2160
(v) 1260 , 405 , 2160

4. A man reduces his weight in the ratio 18 : 10 .

What is his weight now, if originally he was 59 kg ?

(i) $\frac{304}{9}$ kg (ii) $\frac{296}{9}$ kg (iii) $\frac{313}{9}$ kg (iv) 33 kg (v) $\frac{295}{9}$ kg

5. Which of the following is true?

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

6. A certain amount has been divided into two parts in the ratio 8 : 7 .

If the first part is 216 , find the total amount

(i) 402 (ii) 405 (iii) 408 (iv) 404 (v) 406

7. Two numbers are in the ratio 2 : 1 and their difference is 21 . Find the numbers

(i) 42,23 (ii) 42,19 (iii) 43,21 (iv) 41,21 (v) 42,21

Divide ₹19600 into three parts

8. such that the first one is $\frac{7}{3}$ of the second and ratio between second and the third is 4 : 3

(i) ₹ 11200.00 : ₹ 4800.00 : ₹ 4800.00
(ii) ₹ 3600.00 : ₹ 11200.00 : ₹ 4800.00
(iii) ₹ 11200.00 : ₹ 3600.00 : ₹ 4800.00
(iv) ₹ 11200.00 : ₹ 4800.00 : ₹ 3600.00
(v) ₹ 4800.00 : ₹ 3600.00 : ₹ 11200.00

9. Increase 768 in the ratio 12 : 14

(i) 895 (ii) 896 (iii) 897 (iv) 898 (v) 893

Divide ₹21600 among A,B,C so that

10. A shall receive $\frac{2}{25}$ of what B and C together receive and B may receive $\frac{5}{22}$ of what A and C receive

(i) ₹ 1600.00 : ₹ 16000.00 : ₹ 4000.00
(ii) ₹ 1600.00 : ₹ 4000.00 : ₹ 4000.00
(iii) ₹ 16000.00 : ₹ 1600.00 : ₹ 4000.00
(iv) ₹ 1600.00 : ₹ 4000.00 : ₹ 16000.00
(v) ₹ 4000.00 : ₹ 16000.00 : ₹ 1600.00

A bag contains ₹1404 in the form of

11. five-rupee, two-rupee and one-rupee coins in the ratio 6 : 19 : 10 . Find the number of coins of each type

(i) 106 , 347 , 180 (ii) 107 , 342 , 185 (iii) 108 , 342 , 180
(iv) 110 , 337 , 180 (v) 109 , 347 , 175

12. The sides of a triangle are in the ratio $\frac{1}{3} : \frac{1}{5} : \frac{1}{8}$ and its perimeter is 790 cm .
Find the lengths of the sides of the triangle

- (i) 400 cm : 240 cm : 150 cm (ii) 405 cm : 240 cm : 145 cm
(iii) 405 cm : 235 cm : 150 cm (iv) 395 cm : 245 cm : 150 cm
(v) 395 cm : 240 cm : 155 cm
-

13. Find the ratio between 9 months and 6 years

- (i) 0 : 8 (ii) 1 : 6 (iii) 1 : 8 (iv) 1 : 11
-

14. Find the ratio between 41 min. and 16 hrs

- (i) 41 : 957 (ii) 41 : 960 (iii) 41 : 962 (iv) 40 : 960
-

15. Find the ratio between 6 mt and 6 km

- (i) 1 : 1002 (ii) 1 : 998 (iii) 0 : 1000 (iv) 1 : 1000
-

16. Find the ratio between 10 gm and 8 kg

- (i) 1 : 798 (ii) 0 : 800 (iii) 1 : 800 (iv) 1 : 803
-

17. Find the ratio between 9 lt and 3 kl

- (i) 3 : 1002 (ii) 3 : 998 (iii) 3 : 1000 (iv) 2 : 1000
-

18. Find the ratio between 22 hrs and 6 days

- (i) 11 : 75 (ii) 10 : 72 (iii) 11 : 70 (iv) 11 : 72
-

19. The ratio equivalent of the fraction $\frac{2}{3} =$

- (i) 2 : 3 (ii) 2 : 6 (iii) 1 : 3 (iv) 3 : 2 (v) 2 : 0
-

20. The ratio equivalent of the fraction $\frac{31}{33} =$

- (i) 33 : 31 (ii) 31 : 33 (iii) 30 : 33 (iv) 31 : 30 (v) 31 : 35
-

21. The fraction equivalent of the ratio $6 : 2 =$

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

22. The fraction equivalent of the ratio $24 : 68 =$

- (i) $\frac{68}{24}$ (ii) $\frac{11}{34}$ (iii) $\frac{24}{68}$ (iv) $\frac{4}{11}$ (v) $\frac{13}{34}$
-

23. The antecedent in the ratio $15 : 11 =$

- (i) 14 (ii) 11 (iii) 9 (iv) 17 (v) 15
-

24. The antecedent in the ratio $\frac{8}{5} : \frac{11}{18} =$

- (i) $\frac{8}{5}$ (ii) $\frac{8}{3}$ (iii) 2 (iv) $\frac{1}{2}$ (v) $\frac{11}{18}$
-

25. The consequent in the ratio $7 : 15 =$

- (i) 15 (ii) 7 (iii) 14 (iv) 4 (v) 18
-

26. The consequent in the ratio $\frac{13}{11} : \frac{19}{17} =$

- (i) $\frac{21}{17}$ (ii) $\frac{13}{11}$ (iii) 1 (iv) $\frac{19}{17}$ (v) $\frac{19}{15}$
-

27. The simplest form of $126 : 84 =$

- (i) $2 : 2$ (ii) $3 : 0$ (iii) $126 : 87$ (iv) $4 : 2$ (v) $3 : 2$
-

28. If $a : b = 1 : 2$ and $b : c = 1 : 7$, then $a : b : c =$

- (i) $1 : 2 : 14$ (ii) $2 : 2 : 14$ (iii) $0 : 2 : 14$
(iv) $1 : -1 : 14$ (v) $1 : 5 : 14$
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29. If $a : b = 4 : 19$ and $b : c = 27 : 32$, then $a : b : c =$

- (i) $108 : 510 : 608$ (ii) $108 : 513 : 608$ (iii) $107 : 513 : 608$
(iv) $108 : 515 : 608$ (v) $109 : 513 : 608$
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30. If $a : b = \frac{9}{13} : \frac{5}{6}$ and $b : c = \frac{1}{2} : \frac{2}{6}$, then $a : b : c =$

- (i) $\frac{9}{28} : \frac{5}{12} : \frac{5}{18}$ (ii) $\frac{9}{26} : \frac{1}{4} : \frac{5}{18}$ (iii) $\frac{9}{26} : \frac{7}{12} : \frac{5}{18}$
(iv) $\frac{9}{26} : \frac{5}{12} : \frac{5}{18}$ (v) $\frac{3}{8} : \frac{5}{12} : \frac{5}{18}$
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31. If $a : b = \frac{7}{15} : \frac{3}{29}$ and $b : c = \frac{16}{21} : \frac{20}{21}$, then $a : b : c =$

- (i) $\frac{16}{45} : \frac{16}{203} : \frac{20}{203}$ (ii) $\frac{16}{45} : \frac{2}{29} : \frac{20}{203}$ (iii) $\frac{16}{47} : \frac{16}{203} : \frac{20}{203}$
(iv) $\frac{16}{45} : \frac{18}{203} : \frac{20}{203}$ (v) $\frac{16}{43} : \frac{16}{203} : \frac{20}{203}$
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32. Divide 855 in the ratio 1 : 18

- (i) 45 , 813
(ii) 45 , 808
(iii) 46 , 810
(iv) 44 , 810
(v) 45 , 810
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33. Divide 19565 in the ratio 29 : 36

- (i) 8728 , 10836
(ii) 8729 , 10838
(iii) 8730 , 10836
(iv) 8729 , 10833
(v) 8729 , 10836
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34. Divide 858 in the ratio 10 : 16 : 13

- (i) 220 , 352 , 286
(ii) 220 , 355 , 286
(iii) 219 , 352 , 286
(iv) 221 , 352 , 286
(v) 220 , 349 , 286
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35. Divide 21708 in the ratio 23 : 28 : 16

- (i) 7451 , 9072 , 5184
 - (ii) 7452 , 9074 , 5184
 - (iii) 7453 , 9072 , 5184
 - (iv) 7452 , 9072 , 5184
 - (v) 7452 , 9070 , 5184
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36. A ratio is equal to 3 : 10 . If its antecedent is 1890 , what is its consequent?

- (i) 6299 (ii) 6303 (iii) 6300 (iv) 6301 (v) 6298
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37. A ratio is equal to 11 : 2 . If its consequent is 1120 , what is its antecedent?

- (i) 6161 (ii) 6157 (iii) 6160 (iv) 6162 (v) 6159
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38. A ratio is equal to 56 : 11 . If its antecedent is 1680 , what is its consequent?

- (i) 328 (ii) 330 (iii) 329 (iv) 331 (v) 333
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39. A ratio is equal to 7 : 1 . If its consequent is 2890 , what is its antecedent?

- (i) 20229 (ii) 20228 (iii) 20231 (iv) 20232 (v) 20230
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Assignment Key

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