EduSahara™ Assignment

Name : Ratio Concepts

Chapter : Ratio and Proportion

Grade : ICSE Grade VII

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1. Find the ratio between 2 months and 4 years 4 months

   (i) 0:26 (ii) 1:26 (iii) 1:29 (iv) 1:24

2. Divide 1513 in the ratio $\frac{2}{3} : \frac{1}{7}$

   (i) 1245 , 267 (ii) 1247 , 267 (iii) 1246 , 267 (iv) 1246 , 264 (v) 1246 , 269

3. Divide 3198 in the ratio $\frac{8}{3} : \frac{1}{4} : \frac{1}{2}$

   (i) 2496 , 234 , 468 (ii) 2497 , 234 , 468 (iii) 2496 , 237 , 468 (iv) 2496 , 232 , 468 (v) 2495 , 234 , 468

4. A man reduces his weight in the ratio 19 : 11. What is his weight now, if originally he was 50 kg ?

   (i) 29 kg (ii) $\frac{550}{19}$ kg (iii) $\frac{588}{19}$ kg (iv) $\frac{569}{19}$ kg (v) $\frac{552}{19}$ kg

5. Which of the following is true?

   (i) $8:3 < 7:1$ (ii) $8:1 < 5:1$ (iii) $5:3 < 4:3$ (iv) $9:8 > 7:4$ (v) $6:5 > 6:1$

6. A certain amount has been divided into two parts in the ratio 7 : 4. If the first part is 210, find the total amount.

   (i) 328 (ii) 330 (iii) 329 (iv) 331 (v) 333

7. Two numbers are in the ratio 5 : 4 and their difference is 29. Find the numbers.

   (i) 146,116 (ii) 145,118 (iii) 145,113 (iv) 145,116 (v) 144,116

8. Divide ₹18600 into three parts such that the first one is $\frac{5}{6}$ of the second and ratio between second and the third is 4 : 3

   (i) ₹6000.00 : ₹7200.00 : ₹5400.00 (ii) ₹6000.00 : ₹7200.00 : ₹7200.00 (iii) ₹6000.00 : ₹5400.00 : ₹7200.00

   (iv) ₹7200.00 : ₹5400.00 : ₹6000.00 (v) ₹5400.00 : ₹6000.00 : ₹7200.00

9. Increase 366 in the ratio 6 : 9

   (i) 547 (ii) 550 (iii) 551 (iv) 548 (v) 549

10. Divide ₹107100 among A,B,C so that A shall receive $\frac{16}{35}$ of what B and C together recieve and B may receive $\frac{56}{97}$ of what A and C receive

    (i) ₹34300.00 : ₹33600.00 : ₹39200.00 (ii) ₹33600.00 : ₹34300.00 : ₹39200.00

    (iii) ₹39200.00 : ₹34300.00 : ₹33600.00 (iv) ₹33600.00 : ₹39200.00 : ₹39200.00

    (v) ₹33600.00 : ₹39200.00 : ₹34300.00

11. A bag contains ₹798 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 7 : 5 : 12. Find the number of coins of each type

(i) 96 , 75 , 168 (ii) 98 , 70 , 168 (iii) 97 , 70 , 173 (iv) 99 , 75 , 163 (v) 100 , 65 , 168

12. The sides of a triangle are in the ratio $\frac{1}{4} : \frac{1}{5} : \frac{1}{8}$ and its perimeter is 414 cm.

Find the lengths of the sides of the triangle

(i) 175 cm : 149 cm : 90 cm (ii) 175 cm : 144 cm : 95 cm (iii) 185 cm : 144 cm : 85 cm (iv) 185 cm : 139 cm : 90 cm

(v) 180 cm : 144 cm : 90 cm

13. Find the ratio between 9 months and 10 years

(i) 3 : 40 (ii) 2 : 40 (iii) 3 : 37 (iv) 3 : 42

14. Find the ratio between 48 min and 54 hr

(i) 2 : 132 (ii) 2 : 135 (iii) 1 : 135 (iv) 2 : 137

15. Find the ratio between 8 m and 6 km

(i) 1 : 752 (ii) 0 : 750 (iii) 1 : 747 (iv) 1 : 750

16. Find the ratio between 6 gm and 3 kg

(i) 1 : 497 (ii) 1 : 502 (iii) 0 : 500 (iv) 1 : 500

17. Find the ratio between 8 l and 5 kl

(i) 1 : 625 (ii) 0 : 625 (iii) 1 : 623 (iv) 1 : 628

18. Find the ratio between 5 hr and 7 days

(i) 4 : 168 (ii) 5 : 166 (iii) 5 : 170 (iv) 5 : 168

19. The ratio equivalent of the fraction $\frac{10}{7}$ =

(i) 9 : 7 (ii) 7 : 10 (iii) 10 : 7 (iv) 10 : 9 (v) 10 : 5

20. The ratio equivalent of the fraction $\frac{12}{77}$ =

(i) 12 : 77 (ii) 12 : 79 (iii) 77 : 12 (iv) 12 : 74 (v) 11 : 77

21. The fraction equivalent of the ratio 10 : 9 =

(i) $\frac{10}{9}$ (ii) $\frac{8}{9}$ (iii) $\frac{4}{3}$ (iv) $\frac{9}{10}$ (v) $\frac{10}{7}$

22. The fraction equivalent of the ratio 79 : 45 =

(i) $\frac{9}{5}$ (ii) $\frac{79}{43}$ (iii) $\frac{45}{79}$ (iv) $\frac{77}{45}$ (v) $\frac{79}{45}$

23. The antecendent in the ratio 1 : 9 =

(i) 4 (ii) 1 (iii) 6 (iv) 0 (v) 9

24. The antecendent in the ratio $\frac{19}{16} : \frac{19}{13}$ =

(i) $\frac{17}{13}$ (ii) $\frac{19}{14}$ (iii) $\frac{19}{13}$ (iv) $\frac{19}{16}$ (v) $\frac{21}{16}$

25. The consequent in the ratio $20 : 15$ =

(i) 17 (ii) 15 (iii) 20 (iv) 14

26. The consequent in the ratio $\frac{5}{8} : \frac{15}{11}$ =

(i) $\frac{17}{11}$ (ii) $\frac{5}{3}$ (iii) $\frac{15}{11}$ (iv) $\frac{5}{8}$ (v) $\frac{3}{8}$

27. The simplest form of $128 : 576$ =

(i) $3 : 9$ (ii) $1 : 9$ (iii) $2 : 9$ (iv) $2 : 7$ (v) $128 : 579$

28. If $a : b = 2 : 11$ and $b : c = 3 : 20$, then $a : b : c$ =

(i) $5 : 33 : 220$ (ii) $6 : 30 : 220$ (iii) $6 : 33 : 220$ (iv) $6 : 36 : 220$ (v) $7 : 33 : 220$

29. If $a : b = 7 : 38$ and $b : c = 3 : 12$, then $a : b : c$ =

(i) $21 : 114 : 456$ (ii) $20 : 114 : 456$ (iii) $21 : 111 : 456$ (iv) $21 : 117 : 456$ (v) $22 : 114 : 456$

30. If $a : b = \frac{1}{6} : \frac{3}{4}$ and $b : c = \frac{3}{4} : \frac{11}{13}$, then $a : b : c$ =

(i) $\frac{1}{8} : \frac{9}{16} : \frac{33}{52}$ (ii) $\frac{1}{10} : \frac{9}{16} : \frac{33}{52}$ (iii) $\frac{1}{8} : \frac{7}{16} : \frac{33}{52}$ (iv) $\frac{1}{6} : \frac{9}{16} : \frac{33}{52}$ (v) $\frac{1}{8} : \frac{11}{16} : \frac{33}{52}$

31. If $a : b = \frac{6}{17} : \frac{16}{18}$ and $b : c = \frac{16}{21} : \frac{5}{33}$, then $a : b : c$ =

(i) $\frac{32}{117} : \frac{128}{189} : \frac{40}{297}$ (ii) $\frac{32}{119} : \frac{130}{189} : \frac{40}{297}$ (iii) $\frac{32}{121} : \frac{128}{189} : \frac{40}{297}$ (iv) $\frac{32}{119} : \frac{2}{3} : \frac{40}{297}$ (v) $\frac{32}{119} : \frac{128}{189} : \frac{40}{297}$

32. Divide 2028 in the ratio 8 : 18

(i) 624 , 1402 (ii) 625 , 1404 (iii) 624 , 1406 (iv) 624 , 1404 (v) 623 , 1404

33. Divide 5080 in the ratio 26 : 14

(i) 3302 , 1780 (ii) 3303 , 1778 (iii) 3302 , 1775 (iv) 3301 , 1778 (v) 3302 , 1778

34. Divide 2483 in the ratio 2 : 10 : 1

(i) 381 , 1910 , 191 (ii) 382 , 1910 , 191 (iii) 383 , 1910 , 191 (iv) 382 , 1907 , 191 (v) 382 , 1912 , 191

35. Divide 24090 in the ratio 21 : 20 : 25

(i) 7665 , 7303 , 9125 (ii) 7665 , 7300 , 9125 (iii) 7665 , 7298 , 9125 (iv) 7666 , 7300 , 9125

(v) 7664 , 7300 , 9125

36. A ratio is equal to 5 : 3. If its antecendent is 700, what is its consequent?

(i) 423 (ii) 420 (iii) 419 (iv) 421 (v) 417

37. A ratio is equal to 5 : 4. If its consequent is 420, what is its antecendent?

(i) 526 (ii) 524 (iii) 528 (iv) 523 (v) 525

38. A ratio is equal to 7 : 2. If its antecendent is 8575, what is its consequent?

(i) 2451 (ii) 2450 (iii) 2453 (iv) 2449 (v) 2448

39. A ratio is equal to 7 : 5. If its consequent is 1680, what is its antecendent?

(i) 2353 (ii) 2355 (iii) 2352 (iv) 2351 (v) 2350

Assignment Key

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

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