EduSahara™ Assignment

Name : Word Problems on Ratios

Chapter : Ratio and Proportion

Grade : SSC Grade VI

1. A bag contains ₹180 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 1 : 2 : 1. Find the number of coins of each type

   (i) 18 , 36 , 18 (ii) 17 , 36 , 23 (iii) 20 , 31 , 18 (iv) 19 , 41 , 13 (v) 16 , 41 , 18

2. The sides of a triangle are in the ratio $\frac{1}{9} : \frac{1}{3} : \frac{1}{4}$ and its perimeter is 300 cm.

   Find the lengths of the sides of the triangle

   (i) 48 cm : 144 cm : 108 cm (ii) 53 cm : 139 cm : 108 cm (iii) 43 cm : 149 cm : 108 cm (iv) 43 cm : 144 cm : 113 cm

   (v) 53 cm : 144 cm : 103 cm

3. An office contains 210 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 7 : 5 : 1. The number of managers in the office =

   (i) 16 (ii) 14 (iii) 13 (iv) 15 (v) 17

4. An office contains 174 managers, 406 team leaders, 116 developers and 348 testers. The ratio of all employees in the office =

   (i) 4 : 7 : 2 : 6 (ii) 3 : 10 : 2 : 6 (iii) 3 : 7 : 2 : 6 (iv) 2 : 7 : 2 : 6 (v) 3 : 4 : 2 : 6

5. An office contains 23 managers, 69 team leaders, 138 developers and 161 testers. The ratio of managers and developers =

   (i) 1 : 8 (ii) 2 : 6 (iii) 1 : 4 (iv) 1 : 6 (v) 0 : 6

6. An office contains 144 managers, 120 team leaders, 96 developers and 144 testers. The ratio of managers and testers =

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

7. An office contains 120 managers, 160 team leaders, 280 developers and 80 testers. The ratio of team leaders and developers =

   (i) 4 : 10 (ii) 3 : 7 (iii) 4 : 7 (iv) 5 : 7 (v) 4 : 5

8. An office contains 216 managers, 324 team leaders, 378 developers and 216 testers. The ratio of team leaders and testers =

   (i) 3 : 2 (ii) 3 : 5 (iii) 3 : 0 (iv) 2 : 2 (v) 4 : 2

9. An office contains 29 managers, 174 team leaders, 58 developers and 174 testers. The ratio of developers and testers =

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

10. An office contains 19 managers, 57 team leaders, 76 developers and 95 testers. The ratio of managers to the total employees =

    (i) 2 : 13 (ii) 0 : 13 (iii) 1 : 13 (iv) 1 : 16 (v) 1 : 10

11. An office contains 234 managers, 156 team leaders, 117 developers and 156 testers. The ratio of team leaders to the total employees =

(i) 3:17 (ii) 5:17 (iii) 4:20 (iv) 4:17 (v) 4:14

12. An office contains 408 managers, 272 team leaders, 408 developers and 476 testers. The ratio of developers to the total employees =

(i) 7:23 (ii) 6:23 (iii) 6:26 (iv) 5:23 (v) 6:20

13. An office contains 322 managers, 92 team leaders, 138 developers and 46 testers. The ratio of testers to the total employees =

(i) 1:13 (ii) 2:13 (iii) 0:13 (iv) 1:11 (v) 1:16

14. An office contains 240 employees of 4 types. There are 96 managers and 48 team leaders. The developers and testers are in the ratio 5 : 1. The number of developers in the office =

(i) 80 (ii) 79 (iii) 78 (iv) 81 (v) 82

15. An office contains 572 employees of 4 types. There are 52 managers and 182 team leaders. The developers and testers are in the ratio 6 : 7. The number of testers in the office =

(i) 180 (ii) 182 (iii) 184 (iv) 183 (v) 181

16. A box contains 195 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 4 : 2 : 7. The number of mangoes in the box =

(i) 62 (ii) 59 (iii) 60 (iv) 58 (v) 61

17. A box contains 180 mangoes, 300 apples and 360 oranges. The ratio of all fruits in the box =

(i) 3:2:6 (ii) 3:5:6 (iii) 4:5:6 (iv) 3:8:6 (v) 2:5:6

18. A box contains 427 mangoes, 61 apples and 244 oranges. The ratio of mangoes and apples =

(i) 7:1 (ii) 8:1 (iii) 6:1 (iv) 7:4 (v) 7:-2

19. A box contains 246 mangoes, 123 apples and 205 oranges. The ratio of mangoes and oranges =

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

20. A box contains 414 mangoes, 345 apples and 414 oranges. The ratio of apples and oranges =

(i) 5:3 (ii) 4:6 (iii) 5:9 (iv) 6:6 (v) 5:6

21. A box contains 192 mangoes, 96 apples and 144 oranges. The ratio of mangoes to the total fruits =

(i) 4:6 (ii) 3:9 (iii) 5:9 (iv) 4:11 (v) 4:9

22. A box contains 54 mangoes, 108 apples and 90 oranges. The ratio of apples to the total fruits =

(i) 4:7 (ii) 3:9 (iii) 2:7 (iv) 3:7 (v) 3:4

23. A box contains 99 mangoes, 33 apples and 231 oranges. The ratio of oranges to the total fruits =

(i) 8:11 (ii) 6:11 (iii) 7:14 (iv) 7:11 (v) 7:9

24. A box contains 456 stationary items of 2 types. The pens and pencils are in the ratio 6 : 2. The number of pens in the box =

(i) 343 (ii) 345 (iii) 341 (iv) 339 (v) 342

25. A box contains 806 stationary items of 2 types. The pens and pencils are in the ratio 6 : 7. The number of pencils in the box =

(i) 431 (ii) 437 (iii) 435 (iv) 433 (v) 434

26. A box contains 54 pens and 135 pencils. The ratio of all stationary items in the box =

(i) 2:7 (ii) 3:5 (iii) 2:5 (iv) 1:5 (v) 2:3

27. A box contains 420 pens and 180 pencils. The ratio of pens to the total stationary items =

(i) 8:10 (ii) 6:10 (iii) 7:13 (iv) 7:10 (v) 7:7

28. A box contains 86 pens and 43 pencils. The ratio of pencils to the total stationary items =

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

Assignment Key

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