EduSahara™ Assignment

Name : Word Problems on Ratios

Chapter : Ratio and Proportion

Grade : SSC Grade VI

1. A bag contains ₹546 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 8 : 9 : 20. Find the number of coins of each type

   (i) 56 , 63 , 140 (ii) 55 , 63 , 145 (iii) 58 , 58 , 140 (iv) 57 , 68 , 135 (v) 54 , 68 , 140

2. The sides of a triangle are in the ratio $\frac{1}{2}:\frac{1}{8}:\frac{1}{6}$ and its perimeter is 247 cm.

   Find the lengths of the sides of the triangle

   (i) 151 cm : 39 cm : 57 cm (ii) 161 cm : 39 cm : 47 cm (iii) 151 cm : 44 cm : 52 cm (iv) 156 cm : 39 cm : 52 cm

   (v) 161 cm : 34 cm : 52 cm

3. An office contains 420 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 7 : 2 : 4. The number of managers in the office =

   (i) 31 (ii) 30 (iii) 27 (iv) 33 (v) 29

4. An office contains 174 managers, 348 team leaders, 58 developers and 290 testers. The ratio of all employees in the office =

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

5. An office contains 276 managers, 184 team leaders, 138 developers and 184 testers. The ratio of managers and developers =

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

6. An office contains 329 managers, 282 team leaders, 47 developers and 94 testers. The ratio of managers and testers =

   (i) 7:2 (ii) 6:2 (iii) 7:0 (iv) 7:4 (v) 8:2

7. An office contains 192 managers, 160 team leaders, 32 developers and 128 testers. The ratio of team leaders and developers =

   (i) 5:4 (ii) 4:1 (iii) 5:-2 (iv) 5:1 (v) 6:1

8. An office contains 122 managers, 61 team leaders, 427 developers and 122 testers. The ratio of team leaders and testers =

   (i) 1:-1 (ii) 1:5 (iii) 0:2 (iv) 2:2 (v) 1:2

9. An office contains 318 managers, 53 team leaders, 159 developers and 53 testers. The ratio of developers and testers =

   (i) 3:4 (ii) 4:1 (iii) 2:1 (iv) 3:-1 (v) 3:1

10. An office contains 448 managers, 192 team leaders, 448 developers and 192 testers. The ratio of managers to the total employees =

    (i) 8:20 (ii) 7:17 (iii) 6:20 (iv) 7:20 (v) 7:23

11. An office contains 399 managers, 285 team leaders, 57 developers and 285 testers. The ratio of team leaders to the total employees =

(i) 6:18 (ii) 5:16 (iii) 4:18 (iv) 5:21 (v) 5:18

12. An office contains 105 managers, 30 team leaders, 90 developers and 30 testers. The ratio of developers to the total employees =

(i) 6:15 (ii) 5:17 (iii) 6:20 (iv) 7:17 (v) 6:17

13. An office contains 168 managers, 56 team leaders, 28 developers and 112 testers. The ratio of testers to the total employees =

(i) 4:13 (ii) 5:13 (iii) 4:11 (iv) 4:15 (v) 3:13

14. An office contains 1200 employees of 4 types. There are 300 managers and 350 team leaders. The developers and testers are in the ratio 4 : 7. The number of developers in the office =

(i) 200 (ii) 198 (iii) 199 (iv) 202 (v) 201

15. An office contains 684 employees of 4 types. There are 252 managers and 180 team leaders. The developers and testers are in the ratio 6 : 1. The number of testers in the office =

(i) 37 (ii) 36 (iii) 35 (iv) 38 (v) 33

16. A box contains 560 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 2 : 1 : 5. The number of mangoes in the box =

(i) 137 (ii) 139 (iii) 141 (iv) 140 (v) 142

17. A box contains 165 mangoes, 385 apples and 275 oranges. The ratio of all fruits in the box =

(i) 4:7:5 (ii) 3:4:5 (iii) 3:7:5 (iv) 2:7:5 (v) 3:10:5

18. A box contains 112 mangoes, 56 apples and 28 oranges. The ratio of mangoes and apples =

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

19. A box contains 408 mangoes, 136 apples and 272 oranges. The ratio of mangoes and oranges =

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

20. A box contains 152 mangoes, 76 apples and 38 oranges. The ratio of apples and oranges =

(i) 2:-2 (ii) 3:1 (iii) 1:1 (iv) 2:4 (v) 2:1

21. A box contains 40 mangoes, 200 apples and 240 oranges. The ratio of mangoes to the total fruits =

(i) 1:12 (ii) 1:10 (iii) 0:12 (iv) 2:12 (v) 1:14

22. A box contains 136 mangoes, 204 apples and 68 oranges. The ratio of apples to the total fruits =

(i) 1:5 (ii) 2:2 (iii) 1:0 (iv) 1:2 (v) 0:2

23. A box contains 162 mangoes, 135 apples and 189 oranges. The ratio of oranges to the total fruits =

(i) 7:16 (ii) 8:18 (iii) 7:20 (iv) 6:18 (v) 7:18

24. A box contains 448 stationary items of 2 types. The pens and pencils are in the ratio 2 : 6. The number of pens in the box =

(i) 112 (ii) 109 (iii) 114 (iv) 113 (v) 111

25. A box contains 210 stationary items of 2 types. The pens and pencils are in the ratio 2 : 5. The number of pencils in the box =

(i) 149 (ii) 148 (iii) 151 (iv) 152 (v) 150

26. A box contains 120 pens and 72 pencils. The ratio of all stationary items in the box =

(i) 5:3 (ii) 5:6 (iii) 6:3 (iv) 5:1 (v) 4:3

27. A box contains 201 pens and 402 pencils. The ratio of pens to the total stationary items =

(i) 1:1 (ii) 1:5 (iii) 0:3 (iv) 2:3 (v) 1:3

28. A box contains 236 pens and 413 pencils. The ratio of pencils to the total stationary items =

(i) 7:13 (ii) 7:11 (iii) 8:11 (iv) 7:8 (v) 6:11

Assignment Key

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