EduSahara™ Assignment

Name : Ratios - Word Problems

Chapter : Ratio - Applications

Grade : SSC Grade VII

1. An office contains 782 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 5 : 2 : 7 : 3. The number of team leaders in the office =

   (i) 93 (ii) 91 (iii) 95 (iv) 90 (v) 92

2. An office contains 110 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 4 : 2 : 3. The number of developers in the office =

   (i) 25 (ii) 23 (iii) 21 (iv) 22 (v) 20

3. An office contains 13 managers, 91 team leaders, 78 developers and 13 testers. The ratio of all employees in the office =

   (i) 2:7:6:1 (ii) 1:9:6:1 (iii) 1:7:6:1 (iv) 1:4:6:1 (v) 0:7:6:1

4. An office contains 188 managers, 94 team leaders, 329 developers and 282 testers. The ratio of managers and team leaders =

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

5. An office contains 128 managers, 96 team leaders, 32 developers and 128 testers. The ratio of managers and developers =

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

6. An office contains 350 managers, 280 team leaders, 420 developers and 70 testers. The ratio of managers to the total employees =

   (i) 5:13 (ii) 4:16 (iii) 5:16 (iv) 6:16 (v) 5:18

7. An office contains 56 managers, 168 team leaders, 280 developers and 112 testers. The ratio of developers to the total employees =

   (i) 5:11 (ii) 5:14 (iii) 5:9 (iv) 4:11 (v) 6:11

8. An office contains 1140 employees of 4 types. There are 120 managers and 420 team leaders. The developers and testers are in the ratio 2 : 3. The number of developers in the office =

   (i) 240 (ii) 243 (iii) 239 (iv) 241 (v) 237

9. An office contains 420 employees of 4 types. There are 60 managers and 140 team leaders. The developers and testers are in the ratio 5 : 6. The number of testers in the office =

   (i) 119 (ii) 122 (iii) 117 (iv) 121 (v) 120

10. An office contains 209 employees of 4 types. There are 55 managers, 33 team leaders and 44 developers. The number of testers in the office =

    (i) 75 (ii) 80 (iii) 78 (iv) 76 (v) 77

11. A box contains 806 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 3 : 6 : 4. The number of mangoes in the box =

    (i) 185 (ii) 189 (iii) 184 (iv) 187 (v) 186

12. A box contains 340 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 7 : 6 : 4. The number of apples in the box =

(i) 117 (ii) 119 (iii) 121 (iv) 123 (v) 120

13. A box contains 140 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 7 : 5 : 2. The number of oranges in the box =

(i) 18 (ii) 20 (iii) 22 (iv) 21 (v) 19

14. A box contains 172 mangoes, 43 apples and 301 oranges. The ratio of all fruits in the box =

(i) 5:1:7 (ii) 4:3:7 (iii) 3:1:7 (iv) 4:-1:7 (v) 4:1:7

15. A box contains 240 mangoes, 360 apples and 300 oranges. The ratio of mangoes and apples =

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

16. A box contains 72 mangoes, 252 apples and 108 oranges. The ratio of mangoes to the total fruits =

(i) 0:6 (ii) 2:6 (iii) 1:6 (iv) 1:8 (v) 1:3

17. A box contains 144 mangoes, 168 apples and 24 oranges. The ratio of apples to the total fruits =

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

18. A box contains 336 fruits of 3 types. There are 112 mangoes and 168 apples. The number of oranges in the box =

(i) 57 (ii) 54 (iii) 56 (iv) 58 (v) 55

19. A box contains 198 stationary items of 2 types. The pens and pencils are in the ratio 3 : 6. The number of pens in the box =

(i) 65 (ii) 67 (iii) 64 (iv) 66 (v) 69

20. A box contains 204 stationary items of 2 types. The pens and pencils are in the ratio 4 : 2. The number of pencils in the box =

(i) 71 (ii) 69 (iii) 65 (iv) 67 (v) 68

21. A box contains 172 pens and 258 pencils. The ratio of all stationary items in the box =

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

22. A box contains 90 pens and 180 pencils. The ratio of pens to the total stationary items =

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

23. A box contains 350 pens and 150 pencils. The ratio of pencils to the total stationary items =

(i) 3:12 (ii) 3:10 (iii) 3:8 (iv) 4:10 (v) 2:10

24. Find the number which bears the same ratio to $\frac{1}{2}$ that $\frac{3}{6}$ does to $\frac{13}{8}$

(i) $\frac{2}{15}$ (ii) $\frac{2}{13}$ (iii) 0 (iv) $\frac{4}{13}$ (v) $\frac{2}{11}$

25. The ages of A and B are in the ratio 5 : 3. 5 years hence, their ages will be in the ratio 11 : 7. Find their present ages.

(i) 45:27 (ii) 40:24 (iii) 60:36 (iv) 50:30

26. The ages of A and B are in the ratio 4 : 5. 6 years ago, their ages were in the ratio 7 : 9. Find their present ages.

(i) $48:60$ (ii) $44:55$ (iii) $56:70$ (iv) $40:50$

27. A certain amount has been divided into two parts in the ratio 6 : 7. If the first part is 120, find the total amount.

(i) 259 (ii) 260 (iii) 261 (iv) 263 (v) 258

28. A bag contains ₹1632 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 15 : 5 : 17. Find the number of coins of each type

(i) 238 , 85 , 272 (ii) 239 , 80 , 277 (iii) 241 , 85 , 267 (iv) 240 , 80 , 272 (v) 242 , 75 , 272

29. The sides of a triangle are in the ratio $\frac{1}{9}:\frac{1}{7}:\frac{1}{8}$ and its perimeter is 2674 cm.

Find the lengths of the sides of the triangle

(i) $789\text{cm}:1003\text{cm}:882\text{cm}$ (ii) $779\text{cm}:1013\text{cm}:882\text{cm}$ (iii) $789\text{cm}:1008\text{cm}:877\text{cm}$

(iv) $784\text{cm}:1008\text{cm}:882\text{cm}$ (v) $779\text{cm}:1008\text{cm}:887\text{cm}$

Assignment Key

1) (v)	2) (iv)	3) (iii)	4) (i)	5) (iii)	6) (iii)
7) (i)	8) (i)	9) (v)	10) (v)	11) (v)	12) (v)
13) (ii)	14) (v)	15) (v)	16) (iii)	17) (i)	18) (iii)
19) (iv)	20) (v)	21) (i)	22) (iii)	23) (ii)	24) (ii)
25) (iv)	26) (i)	27) (ii)	28) (iv)	29) (iv)	