EduSahara™ Assignment

Name : Ratios - Word Problems

Chapter : Ratio - Applications

Grade : SSC Grade VII

1. An office contains 896 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 6 : 2 : 5. The number of team leaders in the office =

   (i) 382 (ii) 385 (iii) 384 (iv) 387 (v) 383

2. An office contains 630 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 2 : 4 : 3. The number of developers in the office =

   (i) 254 (ii) 250 (iii) 252 (iv) 251 (v) 253

3. An office contains 148 managers, 259 team leaders, 74 developers and 222 testers. The ratio of all employees in the office =

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

4. An office contains 66 managers, 22 team leaders, 44 developers and 132 testers. The ratio of managers and team leaders =

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

5. An office contains 126 managers, 441 team leaders, 126 developers and 252 testers. The ratio of managers and developers =

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

6. An office contains 64 managers, 160 team leaders, 192 developers and 160 testers. The ratio of managers to the total employees =

   (i) 1:6 (ii) 1:9 (iii) 2:9 (iv) 1:11 (v) 0:9

7. An office contains 60 managers, 12 team leaders, 24 developers and 60 testers. The ratio of developers to the total employees =

   (i) 2:13 (ii) 3:13 (iii) 1:13 (iv) 2:15 (v) 2:11

8. An office contains 512 employees of 4 types. There are 224 managers and 128 team leaders. The developers and testers are in the ratio 1 : 4. The number of developers in the office =

   (i) 35 (ii) 31 (iii) 32 (iv) 30 (v) 33

9. An office contains 323 employees of 4 types. There are 51 managers and 119 team leaders. The developers and testers are in the ratio 2 : 1. The number of testers in the office =

   (i) 53 (ii) 51 (iii) 52 (iv) 50 (v) 49

10. An office contains 195 employees of 4 types. There are 30 managers, 15 team leaders and 45 developers. The number of testers in the office =

    (i) 106 (ii) 102 (iii) 107 (iv) 105 (v) 104

11. A box contains 708 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 2 : 6 : 4. The number of mangoes in the box =

    (i) 118 (ii) 120 (iii) 119 (iv) 116 (v) 117

12. A box contains 1134 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 7 : 5 : 6. The number of apples in the box =

(i) 315 (ii) 317 (iii) 314 (iv) 312 (v) 316

13. A box contains 378 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 1 : 4 : 2. The number of oranges in the box =

(i) 108 (ii) 106 (iii) 107 (iv) 109 (v) 110

14. A box contains 183 mangoes, 244 apples and 366 oranges. The ratio of all fruits in the box =

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

15. A box contains 210 mangoes, 245 apples and 35 oranges. The ratio of mangoes and apples =

(i) 6:4 (ii) 6:7 (iii) 5:7 (iv) 7:7 (v) 6:10

16. A box contains 448 mangoes, 384 apples and 192 oranges. The ratio of mangoes to the total fruits =

(i) 7:18 (ii) 7:14 (iii) 8:16 (iv) 6:16 (v) 7:16

17. A box contains 82 mangoes, 164 apples and 246 oranges. The ratio of apples to the total fruits =

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

18. A box contains 549 fruits of 3 types. There are 305 mangoes and 61 apples. The number of oranges in the box =

(i) 180 (ii) 182 (iii) 186 (iv) 183 (v) 184

19. A box contains 130 stationary items of 2 types. The pens and pencils are in the ratio 6 : 7. The number of pens in the box =

(i) 59 (ii) 57 (iii) 62 (iv) 61 (v) 60

20. A box contains 192 stationary items of 2 types. The pens and pencils are in the ratio 6 : 2. The number of pencils in the box =

(i) 49 (ii) 50 (iii) 47 (iv) 48 (v) 45

21. A box contains 40 pens and 100 pencils. The ratio of all stationary items in the box =

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

22. A box contains 132 pens and 44 pencils. The ratio of pens to the total stationary items =

(i) 3:4 (ii) 4:4 (iii) 3:7 (iv) 2:4 (v) 3:1

23. A box contains 414 pens and 345 pencils. The ratio of pencils to the total stationary items =

(i) 5:9 (ii) 6:11 (iii) 5:11 (iv) 5:13 (v) 4:11

24. Find the number which bears the same ratio to $\frac{4}{6}$ that $\frac{2}{6}$ does to $\frac{7}{27}$

(i) $\frac{6}{7}$ (ii) $\frac{4}{7}$ (iii) $\frac{2}{3}$ (iv) $\frac{6}{5}$ (v) $\frac{8}{7}$

25. The ages of A and B are in the ratio 4 : 5. 9 years hence, their ages will be in the ratio 9 : 11. Find their present ages.

(i) 80:100 (ii) 68:85 (iii) 72:90 (iv) 64:80

26. The ages of A and B are in the ratio 5 : 8. 9 years ago, their ages were in the ratio 4 : 7. Find their present ages.

(i) $55:88$ (ii) $35:56$ (iii) $40:64$ (iv) $45:72$

27. A certain amount has been divided into two parts in the ratio 3 : 8. If the first part is 81, find the total amount.

(i) 296 (ii) 297 (iii) 299 (iv) 298 (v) 294

28. A bag contains ₹255 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 8 : 4 : 3. Find the number of coins of each type

(i) 41 , 25 , 10 (ii) 42 , 15 , 15 (iii) 38 , 25 , 15 (iv) 39 , 20 , 20 (v) 40 , 20 , 15

29. The sides of a triangle are in the ratio $\frac{1}{9}:\frac{1}{3}:\frac{1}{8}$ and its perimeter is 615 cm.

Find the lengths of the sides of the triangle

(i) $115\text{cm}:365\text{cm}:135\text{cm}$ (ii) $115\text{cm}:360\text{cm}:140\text{cm}$ (iii) $125\text{cm}:360\text{cm}:130\text{cm}$

(iv) $120\text{cm}:360\text{cm}:135\text{cm}$ (v) $125\text{cm}:355\text{cm}:135\text{cm}$

Assignment Key

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