EduSahara™ Assignment

Name : Ratios - Word Problems

Chapter : Ratio - Applications

Grade : SSC Grade VII

1. An office contains 846 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 3 : 7 : 5 : 3. The number of team leaders in the office =

   (i) 331 (ii) 330 (iii) 329 (iv) 328 (v) 327

2. An office contains 350 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 6 : 4 : 3. The number of developers in the office =

   (i) 99 (ii) 101 (iii) 102 (iv) 97 (v) 100

3. An office contains 22 managers, 154 team leaders, 132 developers and 110 testers. The ratio of all employees in the office =

   (i) 2:7:6:5 (ii) 1:9:6:5 (iii) 1:7:6:5 (iv) 1:4:6:5 (v) 0:7:6:5

4. An office contains 132 managers, 198 team leaders, 330 developers and 132 testers. The ratio of managers and team leaders =

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

5. An office contains 448 managers, 192 team leaders, 256 developers and 384 testers. The ratio of managers and developers =

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

6. An office contains 220 managers, 176 team leaders, 264 developers and 44 testers. The ratio of managers to the total employees =

   (i) 5:13 (ii) 5:19 (iii) 5:16 (iv) 4:16 (v) 6:16

7. An office contains 61 managers, 244 team leaders, 305 developers and 183 testers. The ratio of developers to the total employees =

   (i) 6:13 (ii) 5:16 (iii) 4:13 (iv) 5:13 (v) 5:11

8. An office contains 506 employees of 4 types. There are 69 managers and 161 team leaders. The developers and testers are in the ratio 5 : 7. The number of developers in the office =

   (i) 117 (ii) 114 (iii) 112 (iv) 115 (v) 116

9. An office contains 884 employees of 4 types. There are 104 managers and 260 team leaders. The developers and testers are in the ratio 3 : 2. The number of testers in the office =

   (i) 207 (ii) 208 (iii) 210 (iv) 205 (v) 209

10. An office contains 444 employees of 4 types. There are 259 managers, 74 team leaders and 37 developers. The number of testers in the office =

    (i) 74 (ii) 77 (iii) 73 (iv) 75 (v) 72

11. A box contains 833 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 5 : 7 : 5. The number of mangoes in the box =

    (i) 248 (ii) 244 (iii) 243 (iv) 245 (v) 246

12. A box contains 336 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 5 : 4 : 5. The number of apples in the box =

(i) 94 (ii) 97 (iii) 99 (iv) 95 (v) 96

13. A box contains 754 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 7 : 1 : 5. The number of oranges in the box =

(i) 291 (ii) 293 (iii) 290 (iv) 289 (v) 288

14. A box contains 42 mangoes, 84 apples and 21 oranges. The ratio of all fruits in the box =

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

15. A box contains 270 mangoes, 54 apples and 108 oranges. The ratio of mangoes and apples =

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

16. A box contains 182 mangoes, 26 apples and 104 oranges. The ratio of mangoes to the total fruits =

(i) 6:12 (ii) 7:10 (iii) 8:12 (iv) 7:15 (v) 7:12

17. A box contains 126 mangoes, 90 apples and 54 oranges. The ratio of apples to the total fruits =

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

18. A box contains 885 fruits of 3 types. There are 354 mangoes and 295 apples. The number of oranges in the box =

(i) 237 (ii) 234 (iii) 235 (iv) 236 (v) 238

19. A box contains 252 stationary items of 2 types. The pens and pencils are in the ratio 2 : 7. The number of pens in the box =

(i) 53 (ii) 56 (iii) 55 (iv) 58 (v) 57

20. A box contains 429 stationary items of 2 types. The pens and pencils are in the ratio 7 : 4. The number of pencils in the box =

(i) 155 (ii) 154 (iii) 156 (iv) 159 (v) 157

21. A box contains 21 pens and 126 pencils. The ratio of all stationary items in the box =

(i) 1:9 (ii) 1:6 (iii) 0:6 (iv) 1:3 (v) 2:6

22. A box contains 95 pens and 133 pencils. The ratio of pens to the total stationary items =

(i) 5:15 (ii) 6:12 (iii) 4:12 (iv) 5:9 (v) 5:12

23. A box contains 236 pens and 177 pencils. The ratio of pencils to the total stationary items =

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

24. Find the number which bears the same ratio to $\frac{5}{9}$ that $\frac{2}{8}$ does to $\frac{65}{432}$

(i) $\frac{10}{13}$ (ii) $\frac{12}{13}$ (iii) $\frac{12}{11}$ (iv) $\frac{4}{5}$ (v) $\frac{14}{13}$

25. The ages of A and B are in the ratio 8 : 9. 10 years hence, their ages will be in the ratio 9 : 10. Find their present ages.

(i) 96:108 (ii) 80:90 (iii) 64:72 (iv) 72:81

26. The ages of A and B are in the ratio 9 : 5. 8 years ago, their ages were in the ratio 2 : 1. Find their present ages.

(i) $72:40$ (ii) $90:50$ (iii) $54:30$ (iv) $63:35$

27. A certain amount has been divided into two parts in the ratio 8 : 6. If the first part is 288, find the total amount.

(i) 502 (ii) 503 (iii) 505 (iv) 504 (v) 506

28. A bag contains ₹636 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 5 : 7 : 14. Find the number of coins of each type

(i) 62 , 79 , 168 (ii) 61 , 89 , 163 (iii) 58 , 89 , 168 (iv) 60 , 84 , 168 (v) 59 , 84 , 173

29. The sides of a triangle are in the ratio $\frac{1}{2}:\frac{1}{9}:\frac{1}{7}$ and its perimeter is 1805 cm.

Find the lengths of the sides of the triangle

(i) $1202\text{ cm}:261\text{ cm}:342\text{ cm}$ (ii) $1202\text{ cm}:266\text{ cm}:337\text{ cm}$ (iii) $1192\text{ cm}:266\text{ cm}:347\text{ cm}$

(iv) $1197\text{ cm}:266\text{ cm}:342\text{ cm}$ (v) $1192\text{ cm}:271\text{ cm}:342\text{ cm}$

Assignment Key

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