EduSahara™ Assignment

Name : Ratios - Word Problems

Chapter : Ratio - Applications

Grade : SSC Grade VII

1. An office contains 708 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 6 : 1 : 4 : 1. The number of team leaders in the office =

   (i) 58 (ii) 59 (iii) 60 (iv) 62 (v) 56

2. An office contains 585 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 1 : 2 : 5 : 1. The number of developers in the office =

   (i) 325 (ii) 324 (iii) 323 (iv) 327 (v) 326

3. An office contains 65 managers, 26 team leaders, 39 developers and 13 testers. The ratio of all employees in the office =

   (i) 5:5:3:1 (ii) 4:2:3:1 (iii) 5:0:3:1 (iv) 6:2:3:1 (v) 5:2:3:1

4. An office contains 215 managers, 43 team leaders, 258 developers and 129 testers. The ratio of managers and team leaders =

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

5. An office contains 236 managers, 59 team leaders, 177 developers and 413 testers. The ratio of managers and developers =

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

6. An office contains 91 managers, 39 team leaders, 65 developers and 13 testers. The ratio of managers to the total employees =

   (i) 8:16 (ii) 7:16 (iii) 7:19 (iv) 7:14 (v) 6:16

7. An office contains 10 managers, 20 team leaders, 50 developers and 70 testers. The ratio of developers to the total employees =

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

8. An office contains 306 employees of 4 types. There are 102 managers and 119 team leaders. The developers and testers are in the ratio 4 : 1. The number of developers in the office =

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

9. An office contains 410 employees of 4 types. There are 41 managers and 82 team leaders. The developers and testers are in the ratio 1 : 6. The number of testers in the office =

   (i) 246 (ii) 244 (iii) 245 (iv) 248 (v) 247

10. An office contains 946 employees of 4 types. There are 215 managers, 301 team leaders and 258 developers. The number of testers in the office =

    (i) 173 (ii) 171 (iii) 170 (iv) 172 (v) 174

11. A box contains 494 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 5 : 7 : 1. The number of mangoes in the box =

    (i) 188 (ii) 193 (iii) 189 (iv) 190 (v) 191

12. A box contains 126 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 3 : 4 : 2. The number of apples in the box =

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

13. A box contains 1035 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 6 : 4 : 5. The number of oranges in the box =

(i) 345 (ii) 346 (iii) 344 (iv) 347 (v) 343

14. A box contains 132 mangoes, 88 apples and 308 oranges. The ratio of all fruits in the box =

(i) 3:-1:7 (ii) 2:2:7 (iii) 3:2:7 (iv) 3:5:7 (v) 4:2:7

15. A box contains 32 mangoes, 96 apples and 160 oranges. The ratio of mangoes and apples =

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

16. A box contains 36 mangoes, 54 apples and 72 oranges. The ratio of mangoes to the total fruits =

(i) 3:9 (ii) 2:9 (iii) 2:11 (iv) 2:6 (v) 1:9

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

(i) 6:17 (ii) 7:19 (iii) 8:17 (iv) 7:17 (v) 7:15

18. A box contains 330 fruits of 3 types. There are 66 mangoes and 198 apples. The number of oranges in the box =

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

19. A box contains 513 stationary items of 2 types. The pens and pencils are in the ratio 3 : 6. The number of pens in the box =

(i) 170 (ii) 174 (iii) 168 (iv) 171 (v) 172

20. A box contains 84 stationary items of 2 types. The pens and pencils are in the ratio 1 : 5. The number of pencils in the box =

(i) 72 (ii) 69 (iii) 70 (iv) 68 (v) 71

21. A box contains 76 pens and 57 pencils. The ratio of all stationary items in the box =

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

22. A box contains 60 pens and 210 pencils. The ratio of pens to the total stationary items =

(i) 3:9 (ii) 2:9 (iii) 2:12 (iv) 2:7 (v) 1:9

23. A box contains 228 pens and 399 pencils. The ratio of pencils to the total stationary items =

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

24. Find the number which bears the same ratio to $\frac{1}{3}$ that $\frac{2}{5}$ does to $\frac{13}{60}$

(i) $\frac{10}{13}$ (ii) $\frac{6}{13}$ (iii) $\frac{8}{11}$ (iv) $\frac{8}{13}$ (v) $\frac{8}{15}$

25. The ages of A and B are in the ratio 4 : 3. 10 years hence, their ages will be in the ratio 9 : 7. Find their present ages.

(i) 76:57 (ii) 72:54 (iii) 80:60 (iv) 88:66

26. The ages of A and B are in the ratio 7 : 9. 5 years ago, their ages were in the ratio 3 : 4. Find their present ages.

(i) $49:63$ (ii) $28:36$ (iii) $35:45$ (iv) $21:27$

27. A certain amount has been divided into two parts in the ratio 7 : 2. If the first part is 147, find the total amount.

(i) 187 (ii) 191 (iii) 190 (iv) 188 (v) 189

28. A bag contains ₹1040 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 7 : 20 : 5. Find the number of coins of each type

(i) 93 , 255 , 65 (ii) 89 , 265 , 65 (iii) 92 , 265 , 60 (iv) 90 , 260 , 70 (v) 91 , 260 , 65

29. The sides of a triangle are in the ratio $\frac{1}{3}:\frac{1}{7}:\frac{1}{5}$ and its perimeter is 923 cm.

Find the lengths of the sides of the triangle

(i) $460\text{cm}:190\text{cm}:273\text{cm}$ (ii) $455\text{cm}:195\text{cm}:273\text{cm}$ (iii) $450\text{cm}:195\text{cm}:278\text{cm}$

(iv) $460\text{cm}:195\text{cm}:268\text{cm}$ (v) $450\text{cm}:200\text{cm}:273\text{cm}$

Assignment Key

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