1. A bag contains ₹504 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 11 : 12 : 5. Find the number of coins of each type

   (i) 64 , 77 , 30   (ii) 68 , 67 , 30   (iii) 66 , 72 , 30   (iv) 67 , 77 , 25   (v) 65 , 72 , 35

2. The sides of a triangle are in the ratio $\dfrac{1}{2} : \dfrac{1}{8} : \dfrac{1}{6}$ and its perimeter is 266 cm.

   Find the lengths of the sides of the triangle

   (i) 173 cm : 37 cm : 56 cm   (ii) 173 cm : 42 cm : 51 cm   (iii) 163 cm : 42 cm : 61 cm   (iv) 163 cm : 47 cm : 56 cm

   (v) 168 cm : 42 cm : 56 cm

3. An office contains 945 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 4 : 6 : 3 : 2. The number of managers in the office =

   (i) 253   (ii) 251   (iii) 254   (iv) 252   (v) 249

4. An office contains 30 managers, 120 team leaders, 30 developers and 180 testers. The ratio of all employees in the office =

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

5. An office contains 203 managers, 116 team leaders, 29 developers and 203 testers. The ratio of managers and developers =

   (i) 7:3   (ii) 7:-2   (iii) 6:1   (iv) 8:1   (v) 7:1

6. An office contains 150 managers, 100 team leaders, 125 developers and 25 testers. The ratio of managers and testers =

   (i) 7:1   (ii) 6:1   (iii) 6:-2   (iv) 6:3   (v) 5:1

7. An office contains 220 managers, 264 team leaders, 220 developers and 44 testers. The ratio of team leaders and developers =

   (i) 6:8   (ii) 6:2   (iii) 6:5   (iv) 7:5   (v) 5:5

8. An office contains 40 managers, 160 team leaders, 80 developers and 200 testers. The ratio of team leaders and testers =

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

9. An office contains 231 managers, 198 team leaders, 132 developers and 165 testers. The ratio of developers and testers =

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

10. An office contains 54 managers, 162 team leaders, 27 developers and 54 testers. The ratio of managers to the total employees =

    (i) 1:11   (ii) 2:13   (iii) 3:11   (iv) 2:11   (v) 2:9

11. An office contains 120 managers, 240 team leaders, 80 developers and 40 testers. The ratio of team leaders to the total employees =

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

12. An office contains 92 managers, 138 team leaders, 92 developers and 23 testers. The ratio of developers to the total employees =

   (i) 5:15   (ii) 4:12   (iii) 4:15   (iv) 3:15   (v) 4:17

13. An office contains 108 managers, 126 team leaders, 72 developers and 108 testers. The ratio of testers to the total employees =

   (i) 6:21   (ii) 5:23   (iii) 6:26   (iv) 6:23   (v) 7:23

14. An office contains 1170 employees of 4 types. There are 325 managers and 260 team leaders. The developers and testers are in the ratio 5 : 4. The number of developers in the office =

   (i) 322   (ii) 327   (iii) 325   (iv) 324   (v) 326

15. An office contains 1040 employees of 4 types. There are 260 managers and 195 team leaders. The developers and testers are in the ratio 2 : 7. The number of testers in the office =

   (i) 453   (ii) 457   (iii) 456   (iv) 455   (v) 454

16. A box contains 120 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 5 : 4 : 3. The number of mangoes in the box =

   (i) 51   (ii) 47   (iii) 49   (iv) 53   (v) 50

17. A box contains 240 mangoes, 200 apples and 280 oranges. The ratio of all fruits in the box =

   (i) 6:5:7   (ii) 5:5:7   (iii) 6:2:7   (iv) 7:5:7   (v) 6:8:7

18. A box contains 140 mangoes, 210 apples and 140 oranges. The ratio of mangoes and apples =

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

19. A box contains 204 mangoes, 476 apples and 340 oranges. The ratio of mangoes and oranges =

   (i) 3:8   (ii) 4:5   (iii) 2:5   (iv) 3:3   (v) 3:5

20. A box contains 60 mangoes, 36 apples and 48 oranges. The ratio of apples and oranges =

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

21. A box contains 105 mangoes, 84 apples and 147 oranges. The ratio of mangoes to the total fruits =

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

22. A box contains 88 mangoes, 22 apples and 66 oranges. The ratio of apples to the total fruits =

   (i) 1:5   (ii) 0:8   (iii) 2:8   (iv) 1:10   (v) 1:8

23. A box contains 52 mangoes, 364 apples and 104 oranges. The ratio of oranges to the total fruits =

   (i) 1:8   (ii) 0:5   (iii) 1:2   (iv) 2:5   (v) 1:5

24. A box contains 243 stationary items of 2 types. The pens and pencils are in the ratio 3 : 6. The number of pens in the box =

   (i) 80   (ii) 84   (iii) 78   (iv) 81   (v) 82

25. A box contains 176 stationary items of 2 types. The pens and pencils are in the ratio 1 : 3. The number of pencils in the box =

   (i) 129 (ii) 132 (iii) 131 (iv) 134 (v) 133

26. A box contains 42 pens and 21 pencils. The ratio of all stationary items in the box =

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

27. A box contains 287 pens and 246 pencils. The ratio of pens to the total stationary items =

   (i) 7:15 (ii) 7:13 (iii) 6:13 (iv) 8:13 (v) 7:10

28. A box contains 238 pens and 102 pencils. The ratio of pencils to the total stationary items =

   (i) 3:10 (ii) 2:10 (iii) 3:7 (iv) 4:10 (v) 3:13

Assignment Key

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