

**EduSahara™ Learning Center Assignment****Grade : Class VII, SSC****Chapter : Ratio – Applications****Name : Ratios – Word Problems****Licensed To : Teachers and Students for non-commercial use**

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1. An office contains 285 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 6 : 3 : 4 : 2. The number of team leaders in the office =  
(i) 54 (ii) 56 (iii) 58 (iv) 60 (v) 57
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2. An office contains 104 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 3 : 2 : 1 : 2. The number of developers in the office =  
(i) 14 (ii) 12 (iii) 13 (iv) 10 (v) 15
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3. An office contains 102 managers, 68 team leaders, 51 developers and 17 testers. The ratio of all employees in the office =  
(i) 6 : 2 : 3 : 1 (ii) 5 : 4 : 3 : 1 (iii) 6 : 6 : 3 : 1  
(iv) 6 : 4 : 3 : 1 (v) 7 : 4 : 3 : 1
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4. An office contains 246 managers, 205 team leaders, 164 developers and 205 testers. The ratio of managers and team leaders =  
(i) 6 : 3 (ii) 5 : 5 (iii) 6 : 7  
(iv) 6 : 5 (v) 7 : 5
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5. An office contains 36 managers, 12 team leaders, 36 developers and 48 testers. The ratio of managers and developers =  
(i) 1 : 3 (ii) 1 : 1 (iii) 1 : -1  
(iv) 0 : 1 (v) 2 : 1
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6. An office contains 360 managers, 300 team leaders, 240 developers and 120 testers. The ratio of managers to the total employees =  
(i) 5 : 17 (ii) 6 : 19 (iii) 6 : 17  
(iv) 7 : 17 (v) 6 : 14
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7. An office contains 38 managers, 95 team leaders, 57 developers and 76 testers. The ratio of developers to the total employees =  
(i) 4 : 14 (ii) 3 : 17 (iii) 3 : 11
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(iv) 2 : 14 (v) 3 : 14

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8. An office contains 154 employees of 4 types. There are 28 managers and 70 team leaders. The developers and testers are in the ratio 1 : 3. The number of developers in the office =

(i) 14 (ii) 15 (iii) 12 (iv) 16 (v) 13

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9. An office contains 816 employees of 4 types. There are 204 managers and 68 team leaders. The developers and testers are in the ratio 3 : 5. The number of testers in the office =

(i) 340 (ii) 337 (iii) 339 (iv) 341 (v) 342

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10. An office contains 418 employees. There are 132 managers, 66 team leaders and 88 developers. The number of testers in the office =

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

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11. A box contains 340 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 2 : 6 : 2. The number of mangoes in the box =

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

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12. A box contains 372 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 3 : 7 : 2. The number of apples in the box =

(i) 218 (ii) 217 (iii) 214 (iv) 219 (v) 216

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13. A box contains 308 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 7 : 3 : 4. The number of oranges in the box =

(i) 89 (ii) 87 (iii) 90 (iv) 88 (v) 86

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14. A box contains 126 mangoes, 84 apples and 126 oranges. The ratio of all fruits in the box =

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

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15. A box contains 301 mangoes, 215 apples and 301 oranges. The ratio of mangoes and apples =

(i) 7 : 3 (ii) 7 : 5 (iii) 8 : 5 (iv) 6 : 5 (v) 7 : 8

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16. A box contains 120 mangoes, 180 apples and 120 oranges. The ratio of mangoes to the total fruits =

(i) 2 : 7 (ii) 1 : 7 (iii) 3 : 7 (iv) 2 : 10 (v) 2 : 4

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17. A box contains 50 mangoes, 30 apples and 50 oranges. The ratio of apples to the total fruits =

(i) 3 : 16 (ii) 2 : 13 (iii) 4 : 13 (iv) 3 : 10 (v) 3 : 13

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18. A box contains 594 fruits of 3 types. There are 216 mangoes and 324 apples. The number of oranges in the box =  
(i) 55 (ii) 54 (iii) 57 (iv) 52 (v) 53
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19. A box contains 414 stationary items of 2 types. The pens and pencils are in the ratio 4 : 2. The number of pens in the box =  
(i) 275 (ii) 277 (iii) 276 (iv) 279 (v) 273
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20. A box contains 300 stationary items of 2 types. The pens and pencils are in the ratio 5 : 7. The number of pencils in the box =  
(i) 174 (ii) 176 (iii) 173 (iv) 175 (v) 178
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21. A box contains 69 pens and 138 pencils. The ratio of all stationary items in the box =  
(i) 2 : 2 (ii) 1 : 2 (iii) 0 : 2 (iv) 1 : 5 (v) 1 : -1
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22. A box contains 44 pens and 22 pencils. The ratio of pens to the total stationary items =  
(i) 2 : 3 (ii) 2 : 1 (iii) 1 : 3 (iv) 3 : 3 (v) 2 : 6
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23. A box contains 21 pens and 63 pencils. The ratio of pencils to the total stationary items =  
(i) 3 : 2 (ii) 4 : 4 (iii) 3 : 7 (iv) 3 : 4 (v) 2 : 4
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24. Find the number which bears the same ratio to  $\frac{3}{4}$  that  $\frac{5}{7}$  does to  $\frac{5}{8}$   
(i)  $\frac{6}{7}$  (ii)  $\frac{4}{7}$  (iii)  $\frac{8}{7}$  (iv)  $\frac{2}{3}$  (v)  $\frac{6}{5}$
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25. The ages of A and B are in the ratio 4 : 5. 6 years hence, their ages will be in the ratio 9 : 11. Find their present ages  
(i) 56 : 70 (ii) 40 : 50 (iii) 48 : 60 (iv) 44 : 55
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26. The ages of A and B are in the ratio 2 : 1. 9 years ago, their ages were in the ratio 9 : 4. Find their present ages  
(i) 90 : 45 (ii) 94 : 47 (iii) 86 : 43 (iv) 88 : 44
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27. A certain amount has been divided into two parts in the ratio 8 : 9 .  
If the first part is 240 , find the total amount  
(i) 513 (ii) 508 (iii) 511 (iv) 509 (v) 510
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28. A bag contains ₹825 in the form of

five-rupee, two-rupee and one-rupee coins in the ratio 8 : 6 : 3 .

Find the number of coins of each type

(i) 121 , 95 , 40 (ii) 122 , 85 , 45 (iii) 119 , 90 , 50

(iv) 120 , 90 , 45 (v) 118 , 95 , 45

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29. The sides of a triangle are in the ratio  $\frac{1}{4} : \frac{1}{9} : \frac{1}{5}$  and its perimeter is 1717 cm .

Find the lengths of the sides of the triangle

(i) 765 cm : 340 cm : 612 cm (ii) 760 cm : 340 cm : 617 cm

(iii) 770 cm : 340 cm : 607 cm (iv) 760 cm : 345 cm : 612 cm

(v) 770 cm : 335 cm : 612 cm

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## Assignment Key

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