Name: Ratios - Word Problems

Chapter: Ratio - Applications

Grade: SSC Grade VII

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An office contains 777 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 7:3:4:7. The number of team leaders in the office =

(i) 111 (ii) 112 (iii) 110 (iv) 108 (v) 113

An office contains 810 employees of 4 types. The managers, team leaders, developers and testers are in the ratio 5:2:1:7. The number of developers in the office =

(i) 54 (ii) 55 (iii) 53 (iv) 52 (v) 56

An office contains 44 managers, 176 team leaders, 44 developers and 220 testers. The ratio of all employees in the office =

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

An office contains 212 managers, 318 team leaders, 265 developers and 106 testers. The ratio of managers and team leaders =

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

5. An office contains 72 managers, 96 team leaders, 120 developers and 24 testers. The ratio of managers and developers =

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

6. An office contains 210 managers, 105 team leaders, 175 developers and 245 testers. The ratio of managers to the total employees =

(i) 2:5 (ii) 3:7 (iii) 2:10 (iv) 1:7 (v) 2:7

An office contains 325 managers, 455 team leaders, 130 developers and 65 testers. The ratio of developers to the total employees =

(i) 3:15 (ii) 2:13 (iii) 2:18 (iv) 2:15 (v) 1:15

8. An office contains 663 employees of 4 types. There are 156 managers and 117 team leaders. The developers and testers are in the ratio 3 : 2. The number of developers in the office =

(i) 236 (ii) 235 (iii) 233 (iv) 234 (v) 231

9. An office contains 110 employees of 4 types. There are 33 managers and 22 team leaders. The developers and testers are in the ratio 3 : 2. The number of testers in the office =

(i) 19 (ii) 21 (iii) 24 (iv) 22 (v) 23

An office contains 522 employees of 4 types. There are 87 managers, 145 team leaders and 87 developers. The number of testers in the office =

(i) 203 (ii) 206 (iii) 200 (iv) 202 (v) 204

A box contains 432 fruits of 3 types. The mangoes, apples, and oranges are in the ratio 5 : 6 : 1. The number of mangoes in the box =

(i) 183 (ii) 179 (iii) 181 (iv) 178 (v) 180

l2.	apples in the box = $ (i) 104 (ii) 102 (iii) 101 (iv) 102 (iv) 100 $
	(i) 194 (ii) 192 (iii) 191 (iv) 193 (v) 189
3.	A box contains 391 fruits of 3 types. The mangoes, apples, and oranges are in the ratio $4:6:7$. The number oranges in the box =
	(i) 162 (ii) 160 (iii) 161 (iv) 158 (v) 163
4.	A box contains 34 mangoes, 204 apples and 170 oranges. The ratio of all fruits in the box =
	(i) 1:6:5 (ii) 2:6:5 (iii) 0:6:5 (iv) 1:8:5 (v) 1:4:5
5.	A box contains 399 mangoes, 57 apples and 399 oranges. The ratio of mangoes and apples =
	(i) 7:4 (ii) 7:1 (iii) 7:-2 (iv) 6:1 (v) 8:1
6.	A box contains 198 mangoes, 462 apples and 66 oranges. The ratio of mangoes to the total fruits =
	(i) 3:13 (ii) 4:11 (iii) 3:11 (iv) 2:11 (v) 3:9
7.	A box contains 29 mangoes, 87 apples and 203 oranges. The ratio of apples to the total fruits =
	(i) 3:11 (ii) 2:11 (iii) 4:11 (iv) 3:14 (v) 3:9
.8.	A box contains 510 fruits of 3 types. There are 153 mangoes and 204 apples. The number of oranges in the bo
	= (i) 154 (ii) 152 (iii) 153 (iv) 150 (v) 156
9.	A box contains 180 stationary items of 2 types. The pens and pencils are in the ratio 1: 4. The number of pens in the hard
	the box = (i) 36 (ii) 35 (iii) 38 (iv) 34 (v) 37
0.	A box contains 315 stationary items of 2 types. The pens and pencils are in the ratio 3 : 4. The number of penci
	in the box = (i) 181 (ii) 179 (iii) 180 (iv) 178 (v) 183
21.	A box contains 120 pens and 80 pencils. The ratio of all stationary items in the box =
	(i) 6:4 (ii) 6:7 (iii) 5:4 (iv) 6:1 (v) 7:4
22.	A box contains 234 pens and 117 pencils. The ratio of pens to the total stationary items =
	(i) 2:0 (ii) 1:3 (iii) 2:3 (iv) 2:6 (v) 3:3
3.	A box contains 402 pens and 268 pencils. The ratio of pencils to the total stationary items =
	(i) 2:3 (ii) 1:5 (iii) 2:5 (iv) 2:7 (v) 3:5
	7 1 21
24.	Find the number which bears the same ratio to $\frac{7}{8}$ that $\frac{1}{2}$ does to $\frac{21}{40}$

The ages of A and B are in the ratio 5:7.8 years hence, their ages will be in the ratio 3:4. Find their present ages.

(i) 50:70 (ii) 35:49 (iii) 40:56 (iv) 30:42

26. The ages of A and B are in the ratio 3:5.7 years ago, their ages were in the ratio 5:9. Find their present ages.

(i) 36:60 (ii) 48:80 (iii) 42:70 (iv) 39:65

27. A certain amount has been divided into two parts in the ratio 2:5. If the first part is 40, find the total amount.

(i) 140 (ii) 143 (iii) 141 (iv) 138 (v) 139

A bag contains ₹1414 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 14 : 13 : 5. Find the number of coins of each type

 $\hbox{(i)} \ \ 197 \ , \ 187 \ , \ 65 \ \ \hbox{(ii)} \ \ 196 \ , \ 182 \ , \ 70 \ \ \hbox{(iii)} \ \ 198 \ , \ 177 \ , \ 70 \ \ \hbox{(iv)} \ \ 195 \ , \ 182 \ , \ 75 \ \ \hbox{(v)} \ \ 194 \ , \ 187 \ , \ 70 \\$

The sides of a triangle are in the ratio $\frac{1}{8} : \frac{1}{9} : \frac{1}{3}$ and its perimeter is 533 cm.

Find the lengths of the sides of the triangle

(i) 112cm:109cm:312cm (ii) 117cm:104cm:312cm (iii) 122cm:104cm:307cm

(iv) 122cm:99cm:312cm (v) 112cm:104cm:317cm

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

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