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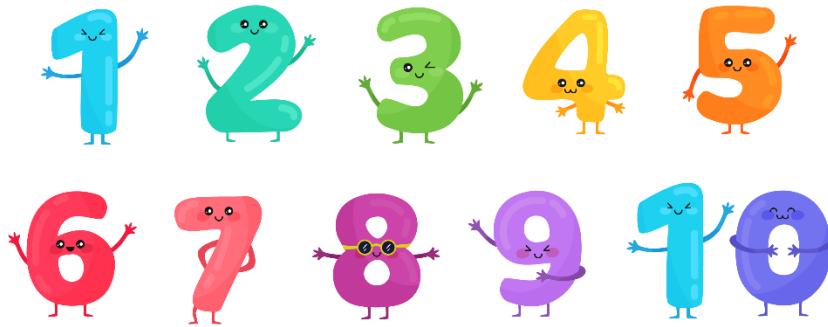
## Ratio and Proportion Worksheets 7th Grade

1. The ratio of the present age of a father and a daughter is  $3 : 1$ . After 12 years, the ratio of their ages would be  $11 : 5$ . Find the present age of the father.  
(a) 68 years    (b) 64 years    (c) 58 years    (d) 54 Years



2. If  $a : b = 4 : 5$  and  $b : c = 3 : 5$ , then  $a : b : c$  is  
(a)  $12 : 9 : 25$     (b)  $15 : 9 : 10$     (c)  $12 : 15 : 25$   
(d)  $15 : 9 : 25$
3.  $A : B = 8 : 15$      $B : C = 5 : 8$      $C : D = 4 : 5$ , then  $A : D$  is equal to:  
(a)  $2 : 7$     (b)  $4 : 15$     (c)  $8 : 15$     (d)  $15 : 4$
4. The third proportion of 36 and 48 is:  
(a) 64    (b) 128    (c) 42    (d) 94
5. Find the mean proportional of 200 and 128  
(a) 80    (b) 120    (c) 160    (d) 200
6. If 25% of  $a = 20\%$  of  $b$ . Find  $a : b$
7. If  $A = 2B = 3C$ . Find the ration of  $A : B : C$ .
8. Find the numbers which are in the ratio  $3 : 2 : 4$  such that the sum of first and second added to the difference of the third and second is 21.

- (a) 12 : 18 : 16      (b) 6 : 4 : 8      (c) 9 : 6 : 24  
(d) 9 : 6 : 12



9. There are two positive numbers in the ratio 5 : 8. If the larger number exceeds the smaller by 15, find the smaller number.  
(a) 25    (b) 30    (c) 20    (d) 35
10. A sum of money is distributed among A, B, C and D in the proportion of 5 : 2 : 4 : 3. If C gets \$ .1000 more than D, What is D's share ?  
(a) \$ 500    (b) \$ 1500    (c) \$ .2000    (d) \$ 3000
11. If  $x : y = 4 : 3$ . Find the value of  $(x^2 - y^2) : (x^2 + y^2)$
12. Income and expenditure of a person is in the ratio 7 : 5. If his income is \$ .21,000, Find his saving.
13. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:  
(a) 27    (b) 33    (c) 49    (d) 55    (e) 63
14. What is the triplicate ratio of 5 : 7?
15. The compound ratio of 2 : 3 and 6 : 5 is \_\_\_\_\_
16. The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be the new ratio of their salaries?  
(a) 3 : 3 : 10    (b) 10 : 11 : 20    (c) 23 : 33 : 60  
(d) 12 : 27 : 49

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**ANSWERS**

1)	(d) 54 years
2)	(c) 12 : 15 : 25
3)	(b) 4 : 15
4)	(a) 64
5)	(c) 160
6)	4 : 5

7)	$6 : 3 : 2$
8)	(d) $9 : 6 : 12$
9)	(a) 25
10)	(d) \$ 3000
11)	$7 : 25$
12)	\$ 6000
13)	(b) 33

14)	$125 : 343$
15)	$4 : 5$
16)	(c) $23 : 33 : 60$

## FUN FACT

1. Ratio of water and land on the earth is 29 : 71.
2. The ratio of carbon to oxygen in carbon dioxide is 2.66 : 1
3. Ratio of Mass of Proton to Electron is  $1.8 \times 10^3$ .

