



## RATIO & PROPORTION\_CSAT\_ENGLISH QUESTION

1. If  $a : b = 4 : 5$  and  $b : c = 7 : 9$  then what is the value of  $a : b : c$ ?  
(a)  $28 : 45 : 36$  (b)  $28 : 35 : 45$   
(c)  $28 : 45 : 35$  (d)  $4 : 35 : 9$
2. If  $4A = 5B = 7C$ , then  $A : B : C$  is equal to :  
(a)  $35 : 28 : 20$  (b)  $28 : 35 : 20$   
(c)  $4 : 5 : 7$  (d)  $20 : 28 : 35$
3. If  $x = \frac{2}{3}y$  and  $y = \frac{3}{4}z$ , then find the value of  $x : y : z$ .  
(a)  $2 : 3 : 8$  (b)  $8 : 9 : 4$   
(c)  $2 : 3 : 4$  (d)  $2 : 9 : 4$
4. If  $l : m = n : o = p : q = 3 : 4$  then  $(la + nb + pc) : (ma + ob + qc)$  is equal to :  
(a)  $3 : 4$  (b)  $4 : 3$   
(c)  $2 : 3$  (d)  $3 : 2$
5. Four Numbers are in the ratio of  $2 : 3 : 4 : 5$  and their sum is 280. What is the sum of second and fourth number.  
(a) 100 (b) 120  
(c) 150 (d) 160
6. The sum of the two numbers is 60 and their difference is 12. Find the ratio of the number.  
(a)  $3 : 2$  (b)  $4 : 3$   
(c)  $3 : 4$  (d)  $2 : 3$
7. Divide Rs. 6250 among  $x, y, z$  so that  $x$  gets  $\frac{2}{9}$  of  $y$ 's share and  $z$  gets  $\frac{3}{4}$  of  $x$ 's share.  
(a) Rs 4500, Rs 750, Rs 1000  
(b) Rs 4500, Rs 1000, Rs 750  
(c) Rs 1000, Rs 4500, Rs 750  
(d) Rs 1000, Rs 750, Rs 4600
8. The sum of the squares of 3 natural numbers is 2900 and they are in the proportion  $2 : 3 : 4$ . The difference between the greatest number and the smallest number is :  
(a) 10 (b) 20  
(c) 40 (d) 30
9. Two numbers are in the ratio  $5 : 7$ . On diminishing each of them by 40, they become in the ratio  $17 : 27$ . The difference of the numbers is:  
(a) 52 (b) 18  
(c) 50 (d) 137
10. The smallest number which subtracted from both the terms of  $5 : 7$  gives a ratio  $15 : 13$  is :  
(a) 20 (b) 30  
(c) 10 (d) 40
11. Two numbers are in the ratio  $1\frac{1}{2} : 2\frac{2}{3}$ . When each of these is increased by 15, they become in the ratio  $1\frac{2}{3} : 2\frac{1}{2}$ . Find the greatest of the number.  
(a) 64 (b) 36  
(c) 48 (d) 27
12. Find the third proportional of 8 and 20.  
(a) 50 (b) 25  
(c) 40 (d) 20
13. What is the mean proportion of 18 and 50?  
(a) 20 (b) 15  
(c) 30 (d) 60

14. What is the ratio of the mean proportional between 4.8 and 10.8 and the third proportional of 0.4 and 2.4?
- (a) 3:2 (b) 2:1  
(c) 2:3 (d) 1:2
15. What is the fourth proportional of 17, 23 and 51?
- (a) 69 (b) 23  
(c) 17 (d) 51
16. What is the ratio between the fourth proportional of 3, 4, 9 and the mean proportional of between 50 and 2 ?
- (a) 9 : 5 (b) 2 : 3  
(c) 4 : 5 (d) 6 : 5
17. The ratio of boys and girls in a school is 14:19. If total Number of students in the school is 2145, then the number of girls in the factory is:
- (a) 1235 (b) 910  
(c) 1350 (d) 1200
18. The students in three classes are in the ratio of 2 : 3 : 5 if 10 students are increased in each class, the ratio changes to 4 : 5 : 7. Originally the total number of students was:
- (a) 25 (b) 50  
(c) 100 (d) 75
19. The students in three classes are in the ratio 1 : 2 : 3. If 40 students are increased in each class, the ratio changes to 3 : 4 : 5. Originally, the total number of students was:
- (a) 120 (b) 100  
(c) 60 (d) 180
20. In 30 litres mixture of acid, the ratio of acid and water is 3 : 5 . What amount of water should be added to the mixture so that the ratio of acid and water becomes 3 : 7 ?
- (a) 1 (b) 3  
(c) 2 (d) 4

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