

# 108 DAYS ONLINE COACHING DAY(68) - 28/11/2019 THURSDAY

Ratio and Proportion



Name of the candidate \*

M3

Place of the candidate \*

Thiruvananthapuram

WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE) \*

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Please watch the following videos and answer the following questions

<https://youtu.be/n-D9eP1E6R0>  
<https://youtu.be/kc8V-eZFQ6l>  
<https://youtu.be/t8yMTy9cdGY>  
<https://youtu.be/NBll3BwJJDw>  
<https://youtu.be/gxXXosMeZB0>

1.  $1:3 = 12/3: x$ . The value of  $x$  is? \*

1 point

- A. 12  
 B. 3  
 C.  $4\frac{1}{6}$   
 D. 5

2. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is: \*

1 point

- A. 2 : 5  
 B. 3 : 5  
 C. 4 : 5  
 D. 6 : 7

3. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share? \*

1 point

- A. Rs. 500  
 B. Rs. 1500  
 C. Rs. 2000  
 D. None of these

4. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats? \* 1 point

- A. 2 : 3 : 4
- B. 6 : 7 : 8
- C. 6 : 8 : 9
- D. None of these

5. In a mixture 60 litres, the ratio of milk and water 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is: \* 1 point

- A. 20 litres
- B. 30 litres
- C. 40 litres
- D. 60 litres

6. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio? \* 1 point

- A. 8 : 9
- B. 17 : 18
- C. 21 : 22
- D. Cannot be determined

7. Salaries of Ravi and Sumit are in the ratio 2 : 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40 : 57. What is Sumit's salary? \* 1 point

- A. Rs. 17,000
- B. Rs. 20,000
- C. Rs. 25,500
- D. Rs. 38,000

8. What number has a 5:1 ratio to the number 10? \* 1 point

- A. 42
- B. 50
- C. 55
- D. 62

9. If  $a : b = 7 : 5$ ,  $b : c = 9 : 11$ , find  $a : b : c$ ? \* 1 point

- A. 63: 14: 55
- B. 63: 45: 55
- C. 14: 14: 15
- D. 7: 14: 15

10. If  $a:b = 3:4$ ,  $b:c = 7:9$ ,  $c:d = 5:7$ , find  $a:d$ ? \*

1 point

- A. 5:12
- B. 7:12
- C. 3:11
- D. 5:11

11. The third proportional to 1 and 2 is? \*

1 point

- A. 2
- B. 3
- C. 4
- D. 1

12. The fourth proportional to 12, 14 and 18 is? \*

1 point

- A. 21
- B. 20
- C. 22
- D.  $28/3$

13. The mean proportional between 4 and 9 is? \*

1 point

- A. 9
- B. 3
- C. 6
- D. 4

14. The proportion of copper and zinc in the brass is 13:7. How much zinc will there be in 100 kg of brass? \*

1 point

- A. 20 kg
- B. 35 kg
- C. 55 kg
- D. 14 kg

15. The ratio of two numbers is 2:3 and the sum of their cubes is 945. The difference of number is? \*

1 point

- A. 3
- B. 4
- C. 5
- D. 6

16. In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 1 : 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there? \* 1 point

- A. 50
- B. 100
- C. 150
- D. 200

17. The proportion of copper and zinc in the brass is 13:7. How much zinc will there be in 100 kg of brass? \* 1 point

- A. 20 kg
- B. 35 kg
- C. 55 kg
- D. 14 kg

18. If Rs 1050 is divided into three parts, proportional to  $(1/3) : (3/4) : (4/6)$ , then what is the first part? \* 1 point

- a. 500
- b. 300
- c. 200
- d. 100

19. Solve for x in the proportion :  $6:15=10:x$  \*

1 point

- 10
- 15
- 20
- 25

20. In a library, the ratio of number of story books to that of non-story books was 4:3 and total number of story books was 1248. When some more story books were bought, the ratio became 5:3. Find the number of story books bought. \*

1 point

- a. 312
- b. 321
- c. 936
- d. 1560

21. The ratio of the present age of father to that of son is 7:2. After 10 years their ages will be in the ratio of 9:4. The present ages of the father is \*

1 point

- a. 35 years
- b. 40 years
- c. 30 years
- d. 25 years



22. Price of each article of type P, Q, and R is Rs. 300, Rs. 180 and Rs. 120 respectively. Suresh buys articles of each type in the ratio 3:2:3 in Rs. 6480. How many articles of type Q did he purchase? \* 1 point

- a. 8
- b. 14
- c. 20
- d. None of the above

23. The ratio of market prices of wheat and paddy is 2:3 and the ratio of quantities consumed in a family is 5:4. Find the ratio of expenditure of wheat and paddy. \* 1 point

- a. 6:5
- b. 5:6
- c. 1:1
- d. 8:15

24. The ratio of numbers of girls and boys participating in sports of a school is 4:5. If the number of girls is 212, determine the number of boys participating in the sports. \* 1 point

- a. 256
- b. 265
- c. 251
- d. 263

25. If  $A:B = 2:3$ ,  $B:C = 4:5$  and  $C:D = 6:7$ , then  $A:B:C:D$  is \*

1 point

- a. 18:24:30:35
- b. 16:24:30:35
- c. 16:22:30:35
- d. 16:24:15:35

Thankyou!!

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