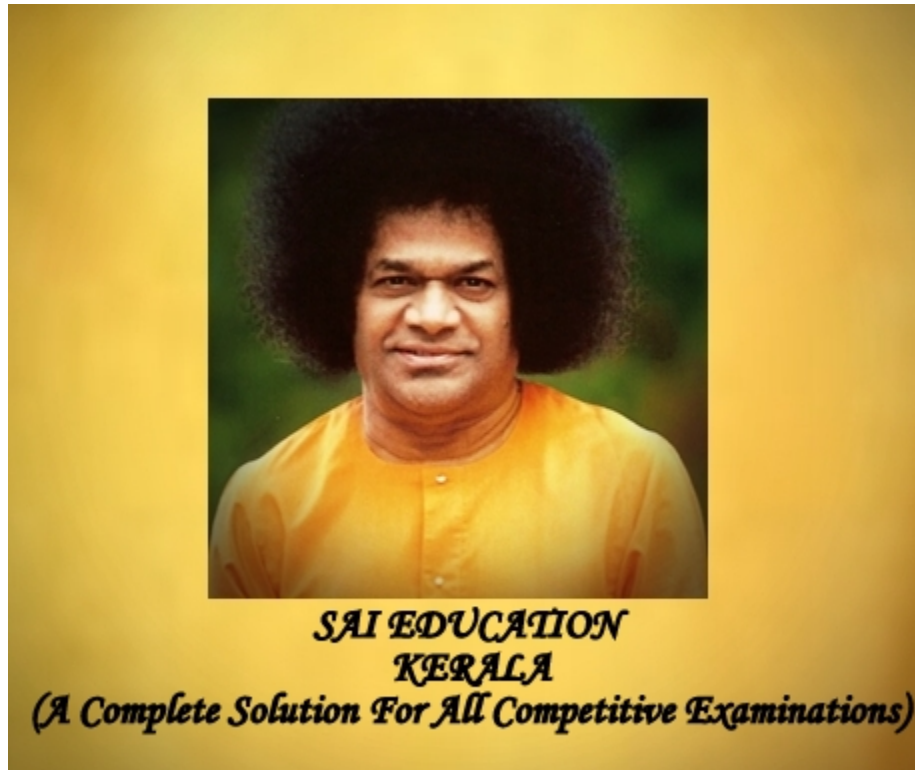


Online coaching day 54 (18- 05- 2019) Saturday

Maths - ratio and proportion



Name of the candidate *

Mentor 5

Please watch the online video: 

<https://youtu.be/n-D9eP1E6R0>
<https://youtu.be/kc8V-eZFQ6I>
<https://youtu.be/t8yMTy9cdGY>
<https://youtu.be/NBII3BwIJDw>
<https://youtu.be/qxXXosMeZB0>

1. If $A:B = 8:9$ and $B:C = 15:16$ then $A:C=?$

1 point

6:5

15:18

5:6

18:15

2. $A:B = 7:9$ and $B:C = 3:5$, then $A: B: C = ?$

1 point

7:8:15

7:9:16

7:9:15

7:8:16

3. If $A = \frac{2}{3} B$, $B = \frac{1}{4} C$. Then $A: B: C=?$

1 point

2:3:12

3:2:12

11:2:3

12:2:3

4. If $2a=3b=4c$ then $a:b:c=?$

1 point

3:4:6

6:4:3

6:5:4

3:4:5

5. If $a:b = 3:4$, $b:c = 7:9$, $c:d = 5:7$, $d:e = 12:5$, then $a:e = ?$

1 point

1:2

2:1

1:1

1:3

6. In a mixture of 60 litre, the ratio of apple juice to water is 2:13. The amount of apple juice to be added to the mixture to make the ratio 1:2 is

1 point

26

8

12

18

7. A mixture containing alcohol and water in the ratio 4:3. If 5 litres of water is added to the mixture the ratio becomes 4:5. Find the quantity of alcohol in the given mixture.

1 point

10

12

8

14

8. A mixture of 40 litres of wine and water contains in the ratio 3:1. How much water must be added to it so that the ratio of wine to water may be 5:2? 1 point

2

3

4

5

9. The ratio of milk and water is 4:3 in a mixture. If 14 litre of water is added to the mixture the ratio become 3:4. Then the quantity of milk in the mixture is? 1 point

12

2

24

36

10. The ratio of men and women in a polling booth is 4:5. If there is 120 women more than men. The total number of voters? 1 point

480

600

1080

1800

11. An amount is divided between sudheer and james in the ratio 4:7. 1 point

If sudheer got Rs 2800. The total amount is

4900

5500

7700

8000

12. An amount is divided among p, q and r in the ratio 2:5:7. If p's 1 point

share is Rs 3000. Then the difference between the shares of q and r?

1500

3000

6000

7500

13. Find the value of 'p' for which 3, 5, p+5, 25 are in proportion? 1 point

50

5

10

20

14. 5:6, 7:8, 13:16 , if we are arranging them in descending order, which is the largest one?

1 point

- 5:6
- 7:8
- 13:16
- None

15. Which one of the following is having greater value?

1 point

- 5:3
- 6:4
- 7:6
- 9:7

16. $5:8 = x:24$, then find the value of 'x'?

1 point

- 8
- 15
- 25
- 10

17. $8:x = 0.5:0.75$, value of x?

1 point

- 10
- 8
- 14
- 12

18. The ratio of 9 seconds to 10 hour?

1 point

- 9:36000
- 9:3600
- 1:3600
- 1:4000

19. A and B are in the ratio 5:3. If A is 35, the B is ?

1 point

- 20
- 14
- 21
- 28

20. Raju earn Rs 90 in 7 hours, james Rs 120 in 11 hours. The ratio of their earnings?

1 point

- 33:28
- 28:33
- 35:28
- 28:35

21. The numbers are in the ratio 3:4. HCF is 4and then find LCM

1 point

- 40
- 48
- 36
- 24

22. A purse contains 1 rupee, 50 paise and 25 paise coins in the ratio 7:8:9. If the total money in the purse is 159. The number of 50 paise coins in the purse? 1 point

100

94

88

96

23. If 3 numbers are in the ratio 2:3:5 and twice their sum is 100. Find the square of the largest number? 1 point

529

625

343

586

24. Divide Rs 288 in the ratio 2:3:5:6. The rupee in the given ratio are in the order given below 1 point

36:45:90:108

36:54:100:108

36:54:90:180

36:54:90:108

25. The ratio of ages of jai and joyis 5:2. The sum of the age is 63. After 9 years what will be the ratio of their ages?


1 point

1:2

1:3

2:1

3:1

Thank you 

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