

ONLINE COACHING - DAY 20 (01/08/2020 - SATURDAY)

Total points 25/25 ?

Topic : Square Roots and Cube Roots

0 of 0 points



Name of the Candidate *

M5

Place of the candidate *

Thrissur



WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) *

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Please watch the following videos and answer the following questions

25 of 25 points

<https://youtu.be/N-SUz4S7PoQ>
<https://youtu.be/mHRkeLlvchY>
<https://youtu.be/KPG6Th38osg>

✓ 1. If $\sqrt{15} = 3.82$, find the value of $\sqrt{5/3}$. *

1/1

- 3.82
- 1.273
- 2.72
- 0.027



✓ 2. Find the greatest square number of 5 digits. Which is a perfect square? *

1/1

- 99856
- 99568



99956

98569

✓ 3. Find the smallest number that must be added to 1780 to make it a perfect square * 1/1

110

1849

1900

69



✓ 4. Find the smallest number that must be reduced to 123267 to make it a perfect square. * 1/1

123241

24500

5000

66



✓ 5. Find the smallest number that must be multiplied to 3150 to make it a perfect square? * 1/1

18

14



16

10

✓ 6. $A = B/2$, $B = C^2/2$, $C = 2\sqrt{3}$. Which is A of the following? *

1/1

$\sqrt{2}$

3

6

$2\sqrt{2}$

✓

✓ 7. If $a+b=7$ and $\sqrt{(b^2) - 9} = 4$. Find 'a'? *

1/1

1

2

3

4

✓



- ✓ 8. Find the smallest number that must be multiplied to make it a perfect square 1/1
square *

$$\frac{A^3 B^8 C^6}{D^7}$$

- CB
 CD
 AD
 AB



- ✓ 9. *

1/1

Find the smallest number that must be multiplied to

$$\frac{125 P^3 Q}{18 R}$$

to make it a perfect square?

- QR
 2QR
 10QR



14QR

✓ 10.*

1/1

$$x + \frac{1}{x} = 5, \text{ then } x^2 + \frac{1}{x^2} = ?$$

25

23

22

20

✓

✓ 11.*

1/1

$$x - \frac{1}{x} = 5, \text{ then } x^2 + \frac{1}{x^2} = ?$$

27

25

23

21

✓



✓ 12. *

1/1

$$x + \frac{1}{x} = 5, \text{ then } x^3 + \frac{1}{x^3} = ?$$

23

110

125

25



✓ 13. *

1/1

$$x - \frac{1}{x} = 5, \text{ then } x^3 - \frac{1}{x^3} = ?$$

110

125

135

140



✓ 14. A man plants 15376 apple trees in his garden and arranges them. So that there are as many rows as there are apples in each row. The number of row is? *

1/1

124



246

116

314

✓ 15. A general wishes to draw up his 36581 soldiers in the form of solid square. After arranging them, he found that some of them are left over. How many are left? *

1/1

95

116

100



121



✓ 16. A group of students decided to collect as many paise from the each number of the group as is the number of members. If the total collection amount to Rs. 59.29, the number of members in the group is? *

1/1

73

79

63

77



✓ 17. What is the cube root of 2197? *

1/1

12

13

14

15



✓ 18. The cube root of 0.000216 is: *

1/1

0.6

0.06

0.77



- 0.77
- 0.87

✓ 19. A person wants to arrange his colleagues in the form of a perfect square, but he finds there are 9 persons too many. What will be the total number of persons in front row, if the total number of persons with him is 2410? *

1/1

- 41
- 47
- 48
- 49



✓ 20. Which is the smallest number, with which 600 should be multiplied so that it becomes a perfect square? *

1/1

- 2
- 3
- 3.5
- 6



✓ 21. What should come in place of both x in the equation *

1/1

$$\frac{x}{\sqrt{128}} = \frac{\sqrt{162}}{x}$$

12



14

144

196

✓ 22. The least perfect square, which is divisible by each of 21, 36 and 66 is: 1/1 *

213444



214344

214434

231444

✓ 23. If $3\sqrt{5} + \sqrt{125} = 17.88$, then what will be the value of $\sqrt{80} + 6\sqrt{5}$? *

1/1

13.41



- 20.46
- 21.66
- 22.35



✓ 24. Evaluate : *

1/1

$$\sqrt{41 - \sqrt{21 + \sqrt{19 - \sqrt{9}}}}$$

- 3
- 5
- 6
- 6.4



✓ 25. Evaluate : *

1/1

$$\left(\sqrt{\frac{225}{729}} - \sqrt{\frac{25}{144}}\right) \div \sqrt{\frac{16}{81}} = ?$$

- 1/48
- 5/48
- 5/16
- None of these



THANK YOU.....

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