

APTITUDE QUIZ

Important Square Root and Cube Root Aptitude Questions:

1. The digit in the unit's place in the square root of 15876 is:

- (A) 1
- (B) 3
- (C) 6
- (D) 9

2. What is the square root of 0.16?

- (A) 0.004
- (B) 0.04
- (C) 0.4
- (D) 0.48

3. $\sqrt{0.00004761}$ equals:

- (A) 0.000690
- (B) 0.0069
- (C) 0.0609
- (D) 0.069

4. $\sqrt{0.01 + \sqrt{0.0064}}$ =?

- (A) 0.03
- (B) 0.3
- (C) 0.42

(D) None of these

5. The least perfect square number divisible by 3,4,5,6 and 8 is:

- (A) 700
- (B) 1400
- (C) 3500
- (D) 3600

6. The least number by which 294 must be multiplied to make it a perfect square, is:

- (A) 3
- (B) 5
- (C) 6
- (D) 24

7. The least number by which 1470 must be divided to get a number which is a perfect square, is:

- (A) 5
- (B) 10
- (C) 20
- (D) 30

8. What is the least number which should be subtracted from 0.000326 to make it a perfect square?

- (A) 0.000002
- (B) 0.0000016
- (C) 0.0002
- (D) 0.002

9. The greatest four-digit perfect square number is:

- (A) 9000
- (B) 9801
- (C) 9900
- (D) 9981

10. A man plants 15376 apple trees in his garden and arranges them so that there are as many rows as there are apples trees in each row. The number of rows is:

- (A) 124
- (B) 128
- (C) 134
- (D) 144

11. A group of students decided to collect as many paise from each member of the group as is the number of members. If the total collection amounts to Rs. 59.29, the number of members in the group is:

- (A) 47
- (B) 67
- (C) 77
- (D) 97

12. The largest four-digit number which is a perfect cube, is:

- (A) 9000
- (B) 9261

(C) 9874

(D) None of these

13. How many two-digit number satisfy this property: The last digit (unit's digits) of the square of the two-digits number is 8?

(A) 2

(B) 4

(C) 6

(D) None of these

14. The value of $\sqrt{0.000441}$ is:

(A) 0.000210

(B) 0.0000021

(C) 0.021

(D) 0.21

15. $1.52 \times \sqrt{0.0225} = ?$

(A) 0.03755

(B) 0.3375

(C) 3.275

(D) 32.75

16. The value of $\sqrt{0.01} + \sqrt{0.81} + \sqrt{1.21} + \sqrt{0.0009}$ is:

(A) 2.03

(B) 2.1

(C) 2.11

(D) 2.13

17. The least perfect square, which is divisible by each of 21, 36 and 66 is:

- (A) 213444
- (B) 216344
- (C) 214435
- (D) 231564

18. Find the smallest number by which 5808 should be multiplied so that the product becomes a perfect square.

- (A) 1
- (B) 3
- (C) 5
- (D) 7

19. What is the smallest number to be subtracted from 549162 in order to make it a perfect square?

- (A) 14
- (B) 28
- (C) 56
- (D) 81

20. The smallest number added to 680621 to make the sum a perfect square is:

- (A) 4
- (B) 5
- (C) 7
- (D) 9

21. The least number of 4 digit which is a perfect square, is:

- (A) 1000
- (B) 1014
- (C) 1024
- (D) 1036

22. A General wish to draw up his 36581 soldiers in the form of a solid square. After arranging them, he found that some of them are left over. How many are left?

- (A) 72
- (B) 81
- (C) 100
- (D) 110

23. The cube root of 0.000216 is:

- (A) 0.006
- (B) .06
- (C) 0.6
- (D) None of these

24. By what least number 675 be multiplied to obtain a number which is a perfect cube?

- (A) 5
- (B) 7
- (C) 9
- (D) 11

Q.25. What is the smallest number by which 3600 be divided to make it a perfect cube?

- (A) 50
- (B) 250
- (C) 350
- (D) 450

Q.26. By how much does $\sqrt{12} + \sqrt{18}$ exceed $\sqrt{3} + \sqrt{2}$?

- (A) $2(\sqrt{3} - \sqrt{2})$
- (B) $2(\sqrt{3} + \sqrt{2})$
- (C) $\sqrt{3} + 2\sqrt{2}$
- (D) $\sqrt{3} - 2\sqrt{2}$

Q.27. The value of $\sqrt{5 + 2\sqrt{6}} - \frac{1}{\sqrt{5 + 2\sqrt{6}}}$ is :

- (A) $2\sqrt{2}$
- (B) $2\sqrt{3}$
- (C) $1 + \sqrt{5}$
- (D) $\sqrt{5} - 1$

Q.28. The value of $\sqrt{2^4} + \sqrt[3]{64} + \sqrt[4]{2^8}$ is :

- (A) 12
- (B) 16
- (C) 18
- (D) 24

Q.29. The value of $(243)^{0.16} \times (243)^{0.04}$ is equal to:

- (A) 0.16

- (B) 3
- (C) 1/3
- (D) 0.04

Q.30. The value of $(256)^{0.16} \times (256)^{0.09}$ is equal to:

- (A) 256.25
- (B) 64
- (C) 16
- (D) 4

ANSWERS

- 1. C
- 2. C
- 3. B
- 4. B
- 5. D
- 6. C
- 7. D
- 8. A
- 9. B
- 10. A
- 11. C
- 12. B
- 13. D

14. C

15. B

16. D

17. A

18. B

19. D

20. A

21. C

22. C

23. B

24. A

25. D

26. C

27. A

28. A

29. B

30. D