



spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



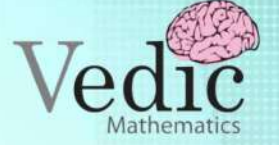
SpardhaGuru



Spardha.guru



www.spardha.guru



## square & square root

1) The value of

$$\sqrt{\frac{(0.03)^2 + (0.21)^2 + (0.065)^2}{(0.003)^2 + (0.021)^2 + (0.0065)^2}}$$
 is:

- a) 10                      b)  $10^2$   
c) 0.1                     d)  $10^3$

2) The value of

$$\sqrt{\frac{(0.1)^2 + (0.01)^2 + (0.009)^2}{(0.01)^2 + (0.001)^2 + (0.0009)^2}}$$
 is:

- a) 10                      b) 0.1  
c)  $10^2$                     d) 0.01

3) The value of

$$\sqrt{\frac{(6.1)^2 + (61.1)^2 + (611.1)^2}{(0.61)^2 + (6.11)^2 + (61.11)^2}}$$
 is:

- a) 1.1                     b) 10  
c) 0.1                     d) 100

4)  $\sqrt{\frac{0.009 \times 0.036 \times 0.016 \times 0.08}{0.002 \times 0.0008 \times 0.0002}}$  is equal to

- a) 36                      b) 38  
c) 34                      d) 39

5) The value of

$$\frac{0.051 \times 0.051 \times 0.051 + 0.041 \times 0.041 \times 0.041}{0.051 \times 0.051 - 0.051 \times 0.041 + 0.041 \times 0.041}$$
 is:

- a) 0.092                      b) 0.0092  
c) 0.92                      d) 0.00092

7) The value of  $\frac{(75.8)^2 - (55.8)^2}{20}$  is:

- a) 40                      b) 121.6  
c) 20                      d) 131.6

8)  $\frac{(3.63)^2 - (2.37)^2}{3.63 + 2.37}$  is simplified to

- a) 1.36                      b) 2.26  
c) 6                        d) 1.26

9)  $\frac{(2.644)^2 - (2.356)^2}{0.288}$

- a) 4                        b) 5  
c) 1                        d) 6

10)  $\frac{(3.4567)^2 - (3.4533)^2}{0.0034}$

- a) 7                        b) 6.81  
c) 6.91                      d) 7.1

11) The value of  $\frac{(0.03)^2 - (0.01)^2}{0.03 - 0.01}$  is :

- a) 0.004                      b) 0.4  
c) 0.02                      d) 0.04

12) The square root of  $(272^2 - 128^2)$  is

- a) 200                      b) 240  
c) 256                      d) 144





spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



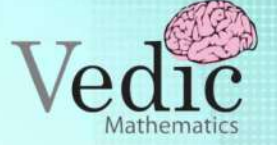
SpardhaGuru



Spardha.guru



www.spardha.guru



13)  $\frac{\sqrt{24} + \sqrt{216}}{\sqrt{96}}$  is equal to:

- a)  $2\sqrt{6}$       b)  $4\sqrt{6}$   
c)  $\frac{2}{\sqrt{6}}$       d) 2

14) The value of  $\frac{\sqrt{80} - \sqrt{112}}{\sqrt{45} - \sqrt{63}}$  is :

- a)  $1\frac{3}{4}$       b)  $1\frac{1}{3}$   
c)  $\frac{3}{4}$       d)  $1\frac{7}{9}$

15)  $(\sqrt{72} - \sqrt{18}) \div \sqrt{12}$  is equal to

- a)  $\frac{\sqrt{3}}{2}$       b)  $\frac{\sqrt{2}}{3}$   
c)  $\sqrt{6}$       d)  $\frac{\sqrt{6}}{2}$

16) The value of  $\sqrt{0.000441}$  is equal to :

- a) 0.0021      b) 0.021  
c) 0.21      d) 0.00021

17)

$$\sqrt{5 + \sqrt{11 + \sqrt{19 + \sqrt{29 + \sqrt{49}}}}}$$

a) 9      b) 7      c) 3

18)  $\sqrt{1\frac{1}{4} \times \frac{64}{125} \times 1.44}$  is equal to:

- a)  $\frac{24}{25}$       b)  $\frac{23}{25}$   
c)  $1\frac{1}{25}$       d)  $\frac{21}{25}$

19)  $\sqrt{\frac{0.081 \times 0.484}{0.0064 \times 6.25}}$  is equal to :

- a) 0.9      b) 99  
c) 9      d) 0.99

20)  $\sqrt{\frac{.025}{0.0009}} \times \sqrt{\frac{0.09}{0.36}}$  is equal to :

- a)  $7\frac{1}{6}$       b)  $7\frac{1}{3}$   
c)  $\frac{5}{6}$       d)  $8\frac{1}{3}$

21) The value of  $\frac{4 - \sqrt{0.04}}{4 + \sqrt{0.4}}$  is close to :

- a) 0.8      b) 1.0  
c) 0.4      d) 1.4

22)  $[2\sqrt{54} - 6\sqrt{\frac{2}{3}} - \sqrt{96}]$  is equal to

- a) 1      b) 2  
c) 0      d)  $\sqrt{6}$





spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



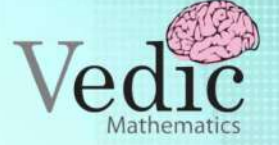
SpardhaGuru



Spardha.guru



www.spardha.guru



23) The value of  $\frac{\sqrt{0.441}}{\sqrt{0.625}}$  is equal to :

- a) 0.84      b) 0.48  
c) 0.048      d) 0.084

24) The simplified value of  $\sqrt{900} + \sqrt{0.09} - \sqrt{0.000009}$  is:

- a) 30.297      b) 30.097  
c) 30.27      d) 30.197

25) Assume that  $\sqrt{13} = 3.605$

(approximately)  $\sqrt{130} = 11.40$

(approximately) Find the value of :

$\sqrt{1.3} + \sqrt{1300} + \sqrt{0.013}$

- a) 36.304      b) 37.304  
c) 36.164      d) 37.164

26) The square root of

$0.342 \times 0.684$

is:  $0.003421 \times 0.000171$

- a) 2500      b) 2000  
c) 250      d) 4000

27) What is the square root of 0.09?

- a) 0.03      b) 0.003  
c) 0.3      d) 3.0

28) The sum of  $\sqrt{0.01} + \sqrt{0.81} + \sqrt{1.21} + \sqrt{0.0009}$  is:

- a) 2.13      b) 2.03  
c) 2.1      d) 2.11

### Cube & Cube root

1) The value of  $(\sqrt[3]{43 + 152})^3$  is :

- a) 3943      b) 4913  
c) 4193      d) 4313

2)  $(5.5)^3 - (4.5)^3$  is equal to :

- a) 75.25      b) 1  
c) 74.25      d) 75

3)  $\sqrt[3]{4 \frac{12}{125}}$  is equal to :

- a) 2.4      b) 1.4  
c) 1.8      d) 1.6

4)

$\sqrt[3]{(333)^3 + (333)^3 + (334)^3 - 3 \times 333 \times 333 \times 334}$

Is equal to :

- a) 15      b) 12  
c) 10      d) 11



5) The least number, by which 1944 must be multiplied to make the result a perfect cube, is

- a) 13 b) 2  
c) 6 d) 3

6)  $\frac{\sqrt[3]{8}}{\sqrt{16}} \div \sqrt{\frac{100}{49}} \times \sqrt[3]{125}$  is equal to :

- a)  $\frac{4}{7}$  b) 7  
c)  $\frac{7}{100}$  d)  $1\frac{3}{4}$

7)  $\sqrt[3]{\frac{72.9}{0.4096}}$  is equal to :

- a) 13.6 b) 0.5625  
c) 182 d) 5.625

8) The sum of the squares of 2 numbers is 146 and the square root of one of them is  $\sqrt{5}$ . The cube of the other number is

- a) 1441 b) 1111  
c) 1331 d) 1221

9) By what least number should 4320 be multiplied to obtain a number which is a perfect cube?

- a) 80 b) 40

c) 60

d) 50

10) Which of the following is a perfect square as well as a cube? 343, 125, 81, or 64

- a) 64 b) 81  
c) 343 d) 125

11) The sum of the cubes of the numbers 22, -15 and -7 is equal to

- a) 0 b) 6930  
c) 3 d) 9630

12) The square of a natural number subtracted from its cube is 48. The number is:

- a) 4 b) 8  
c) 5 d) 6

13)  $\sqrt[3]{0.000125}$  is equal to:

- a) 0.005 b) 0.5  
c) 0.05 d) 0.15

14) If cube root of 175616 is 56, then the value of  $\sqrt[3]{175.616} + \sqrt[3]{0.175616} + \sqrt[3]{0.000175616}$  is equal to :

- a) 6.116 b) 0.168



spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



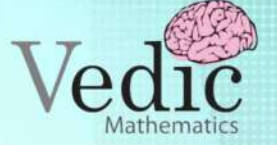
SpardhaGuru



Spardha.guru



www.spardha.guru



c) 6.216

d) 62.16

15)  $(\sqrt[3]{1000} + \sqrt[3]{0.008} - \sqrt[3]{0.125})$  is equal to :

a) 9.9997

b) 9.7

c) 9.997

d) 9.97

16) The least number that must be added to 1720 so as to obtain a perfect cube, is

a) 13

b) 7

c) 11

d) 8

17) The value of  $\sqrt[3]{\sqrt[3]{0.000729}}$  is

a) 0.09

b) 0.9

c) 0.03

d) 0.3

18) Sum of digits of the smallest number by which 1440 be multiplied so that it becomes a perfect cube, is

a) 8

b) 4

c) 7

d) 6

19)  $\sqrt[3]{1 - \frac{127}{343}}$  is equal to :

a)  $1 - \frac{2}{7}$

b)  $\frac{5}{9}$

c)  $\frac{4}{7}$

d)  $1 - \frac{1}{7}$

20) The smallest positive integer n, for which 864n is a perfect cube, is :

a) 4

b) 1

c) 3

d) 2

21)  $\sqrt[3]{\sqrt[3]{0.000064}}$  is equal to :

a) 0.2

b) 0.0002

c) 0.02

d) 0.002

22)  $\sqrt[3]{15612 + \sqrt{154 + \sqrt{225}}}$  is equal to :

a) 125

b) 15

c) 75

d) 25

23) The value of  $\sqrt[3]{\frac{7}{875}}$  is equal to :

a)  $\frac{1}{5}$

b)  $\frac{1}{3}$

c)  $\frac{1}{4}$

d)  $\frac{1}{15}$

24) By what least number should 675 be multiplied so as to obtain a perfect cube number ?

a) 40

b) 3

c) 24

d) 5





25)  $\sqrt[3]{\frac{19}{513}}$  is equal to :

a)  $\frac{1}{\sqrt{3}}$   
c)  $\frac{1}{\sqrt{27}}$

b)  $\frac{1}{9}$   
d)  $\frac{1}{3}$

26)  $\sqrt[3]{3^n} = 27$  then the value of n is :

a) 3  
c) 1

b) 9  
d) 6

27) Which smallest number must be added to 710 so that the sum is a perfect cube ?

a) 21  
c) 11

b) 29  
d) 19

28) The smallest natural number, by which 3000 must be divided to make the quotient a perfect cube, is :

a) 6  
c) 5

b) 3  
d) 4

29) By which smallest number 1323 must be multiplied, so that it becomes a perfect cube?

a) 7  
c) 5

b) 2  
d) 3

30) The sum of the digits of the smallest number which, when multiplied by 1800, gives a perfect cube, is :

a) 8  
c) 6

b) 2  
d) 3

