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

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

2) 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) $1\frac{7}{9}$

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

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

4) 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

5) 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

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

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

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

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

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

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

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

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

10) On simplification of $\frac{(2.644)^2 - (2.356)^2}{0.288}$ we get :

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

11) The value of

$$\sqrt{5 + \sqrt{11 + \sqrt{19 + \sqrt{29 + \sqrt{49}}}}} \text{ is:}$$

- a) 9 b) 7
c) 3 d) 5

12) The value of $(3 + \sqrt{8}) + \frac{1}{3 - \sqrt{8}} - (6 + 4\sqrt{2})$ is:

- a) 1 b) $\sqrt{2}$
c) 8 d) 0





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13) 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

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

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

15) The square root of $\frac{0.342 \times 0.684}{0.0003421 \times 0.000171}$ is:

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

16) The square root of $\frac{(0.75)^3}{1-0.75} + [0.75 + (0.75)^2 + 1]$ is:

- a) 3 b) 2
c) 4 d) 1

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

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

18) What is the square root of 0.09?

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

19) 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

20) $\sqrt{\frac{0.25}{0.0009}} \times \sqrt{\frac{0.09}{0.36}}$ is equal to :

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

