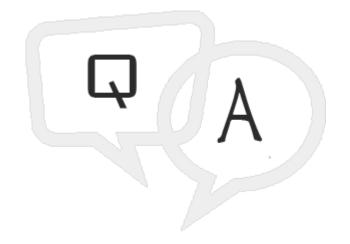
# Aptitude - Squares & Cubes Online Quiz

Following quiz provides Multiple Choice Questions (MCQs) related to **Squares & Cubes**. You will have to read all the given answers and click over the correct answer. If you are not sure about the answer then you can check the answer using **Show Answer** button. You can use **Next Quiz** button to check new set of questions in the quiz.



Q 1 - 6250/  $\sqrt{?}$  = 625

A - 100

B - 95

C - 110

D - 105

#### Answer: A

## **Explanation**

Let  $6250/\sqrt{x} = 625$ . Then  $\sqrt{x} = 6250/625 = 10 \Rightarrow 100$ 

Hide Answer

Q 2 -  $\sqrt{32}+\sqrt{48}/\sqrt{8}+\sqrt{12}=$ ?

A - √2

B - 2

D - 8

#### Answer: B

## **Explanation**

 $(\sqrt{32}+\sqrt{48})/(\sqrt{8}+\sqrt{12}) = (\sqrt{16}*2 + \sqrt{16}*3)/\sqrt{4}*2 + \sqrt{4}*3)$ =  $4\sqrt{2}+4\sqrt{3}/2\sqrt{2}+2\sqrt{3} = 4(\sqrt{2}+\sqrt{3})/2(\sqrt{2}+\sqrt{3}) = 2$ 

Hide Answer

Q 3 - 112/ \(\sqrt{196} \* \sqrt{576/12} \* \sqrt{256/8} = ?

A - 8

B - 12

C - 16

D - 32

#### Answer: D

## **Explanation**

given Exp = 112/14\*24/12\*16/8 = (8\*2\*2)=32

Hide Answer

Q 4 - 0.01 + 0.0064=?

A - 0.3

B - 0.03

C - √0.18

D - none of these

Answer: A

## **Explanation**

 $\sqrt{0.001} + \sqrt{0.0064} = \sqrt{0.01+0.08} = \sqrt{0.09} = 0.3$ 

Hide Answer

## Q 5 - if $\sqrt{256} / \sqrt{x} = 2$ , then x is equal to:

A - 64

B - 128

C - 512

D - 1024

#### Answer: A

## **Explanation**

let  $\sqrt{256}/\sqrt{x} = 2$  . then  $\sqrt{x} = \sqrt{256}/2 = 16/2 = 8 \Rightarrow x = (8*8) = 64$ 

Hide Answer

Q 6 -  $\sqrt{(0.49/0.25)}$  +  $\sqrt{(0.81/0.36)}$  = ?

A - 9/10

B - 29/10

C - 79/10

D - 99/10

#### Answer: B

#### **Explanation**

 $\sqrt{0.49/0.25} = \sqrt{49/25} = 7/5$ ,  $\sqrt{0.81/0.36} = \sqrt{81/36} = 9/6 = 3/2$ Given expression = 7/5+3/2=(14+15)/10=29/10

Hide Answer

Q 7 - If  $\sqrt{15625}$  = 125, then the value of( $\sqrt{15625}$ +  $\sqrt{156.25}$ +  $\sqrt{1.5625}$ ) is

A - 1.3875

B - 13.875

C - 138.75

D - 156.25

#### Answer: C

#### **Explanation**

```
given exp. \sqrt{15625} + \sqrt{15625/100} + \sqrt{15625/10000}
(125+125/10+125/100)= (125+12.5+1.25) = 138.75
```

Show Answer

## Q 8 - If a= $(\sqrt{5}+1)/(\sqrt{5}-1)$ and b= $(\sqrt{5}-1)/(\sqrt{5}+1)$ , then the value of $(a^2+ab+b^2)/(a^2-ab+b^2) = ?$

A - 3/4

B - 4/3

C - 3/5

D - 5/3

#### Answer: B

### **Explanation**

```
(a+b) = (\sqrt{5}+1/\sqrt{5}-1) + (\sqrt{5}-1/\sqrt{5}+1) = (\sqrt{5}+1)^2 + (\sqrt{5}-1)^2/(5-1)
=2(5+1)/4 = 3
(a-b) = (\sqrt{5}+1/\sqrt{5}-1) - (\sqrt{5}-1/\sqrt{5}+1) = (\sqrt{5}+1)^2 - (\sqrt{5}-1)^2/(5-1)
=4*\sqrt{5}*1/4 = \sqrt{5}.
Also, ab = (\sqrt{5}+1/\sqrt{5}-1)*(\sqrt{5}-1/\sqrt{5}+1) = 1
\therefore (a^2+ab+b^2)/(a^2-ab+b^2) = (a+b)^2-ab/(a-b)^2+ab = 3^2-1/(\sqrt{5})^2+1 = (9-1)/(5+1) = 4/3
```

Show Answer

## Q 9 - if $\sqrt{2}$ = 1.4142, then the value of 7/(3+ $\sqrt{2}$ ) is:

A - 1.5858

B - 4.4142

C - 3.4852

D - 3.5858

#### Answer: A

## **Explanation**

$$7/(3+\sqrt{2}) = 7/(3+\sqrt{2})*(3-\sqrt{2})/(3-\sqrt{2})$$
  
=7\*(3-\sqrt{2})/(9-2)=(3-\sqrt{2})  
= (3-1.414)=1.58

Hide Answer

Q 10 -  $\sqrt{0.064}$  = ?

A - 0.8

B - 0.08

C - 0.008

D - 0.252

## **Answer: D**

## **Explanation**

 $\sqrt{0.064} = \sqrt{0.252} * 0.252 = 0.252$ 

Hide Answer