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/ √? = 625

A - 100

B - 95

C - 110

D - 105

Answer : A

Explanation

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Let 6250/√x=  625. Then √x= 6250/625 = 10 ⇒ 100
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Hide Answer

Q 2 - √32+√48/ √8+√12 = ?

A - √2

B - 2

D - 8

Answer : B

Explanation

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(√32+√48)/( √8+√12) =(√16*2 +√16*3)/ √4*2 +√4*3)
= 4√2+4√3/ 2√2+2√3  = 4(√2+√3)/ 2(√2+√3) =2
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Hide Answer

Q 3 - 112/ √196 * √576/12 *√256/8 =?

A - 8

B - 12

C - 16

D - 32

Answer : D

Explanation

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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

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√0.001 + √0.0064 = √0.01+0.08  = √0.09 = 0.3
```

Hide Answer

Q 5 - if √256 /√x= 2, then x is equal to:

A - 64

B - 128

C - 512

D - 1024

Answer : A

Explanation

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let √256/√x =2 . then √x= √256/2 = 16/2 =8 ⇒ x=(8*8) =64
```

Hide Answer

Q 6 - √(0.49/0.25) + √(0.81/0.36) = ?

A - 9/10

B - 29/10

C - 79/10

D - 99/10

Answer : B

Explanation

```
√0.49/0.25 = √ 49/25 =7/5, √ 0.81/0.36 = √81/36 = 9/6 =3/2
Given expression = 7/5+3/2= (14+15)/10  = 29/10
```

Hide Answer

Q 7 - If √15625 = 125, then the value of(√15625+ √156.25+ √1.5625) is

A - 1.3875

B - 13.875

C - 138.75

D - 156.25

Answer : C

Explanation

given exp. √15625 + √ 15625/100 +√15625/10000
(125+125/10+125/100)= (125+12.5+1.25) = 138.75

Show Answer

Q 8 - If a= (√5+1)/(√5-1) and b= (√5-1)/(√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 √2 = 1.4142, then the value of 7/(3+√2) is:

A - 1.5858

B - 4.4142

C - 3.4852

D - 3.5858

Answer : A

Explanation

```
7/(3+√2)= 7/(3+√2)*(3-√2)/(3-√2)
=7*(3-√2)/(9-2)=(3-√2)
= (3-1.414)=1.58
```

Hide Answer

Q 10 - √0.064 = ?

A - 0.8

B - 0.08

C - 0.008

D - 0.252

Answer : D

Explanation

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√0.064 = √ 0.252 * 0.252 = 0.252
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Hide Answer