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Radicals Quiz PDF

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How do you rationalize the denominator of the fraction 1/(2 + √3)?

Provide an example of a real-world application of radicals.

Explain why √(a*b) = √a * √ b is valid for non-negative a and b.

Explain the process of simplifying the radical expression √50.

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Describe how you would solve the equation √x = 7.

What is the importance of checking for extraneous solutions when solving radical equations?

Which of the following steps are involved in rationalizing the denominator of 1/√3? (Select all that apply)

☐ Multiply numerator and denominator by √3
☐ Multiply numerator and denominator by 3
☐ Simplify the expression
☐ Use the conjugate

What is the radicand in the expression √36?

○ 6
○ 36
○ 2

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○ √

Which of the following radicals can be added directly? (Select all that apply)

☐ $\sqrt{2} + \sqrt{2}$
☐ $\sqrt{3} + \sqrt{5}$
☐ $2\sqrt{7} + 3\sqrt{7}$
☐ $\sqrt{6} + \sqrt{6}$

What is the index of the fourth root of 81?

○ 1
○ 2
○ 3
○ 4

What is the result of multiplying $\sqrt{5}$ by $\sqrt{5}$?

○ 5
○ 10
○ 25
○ $\sqrt{25}$

Which of the following is a perfect square?

○ 18
○ 25
○ 30
○ 45

What is the simplified form of $\sqrt{64}$?

○ 6
○ 7
○ 8
○ 9

What is the simplified form of $\sqrt{(25/9)}$?

○ 5/3

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○ 3/5
○ √5/3
○ 5/√3

Which property allows you to write √a * √ b as √(a*b)?

○ Quotient Property
○ Product Property
○ Power Property
○ Addition Property

Which of the following are true about the expression √(a^2)? (Select all that apply)

☐ It equals a
☐ It equals |a|
☐ It is always positive
☐ It is the square root of a squared

Which of the following expressions are equivalent to 1? (Select all that apply)

☐ √1
☐ √(9/9)
☐ √(16/16)
☐ √(25/25)

Which of the following are perfect cubes? (Select all that apply)

☐ 8
☐ 27
☐ 64
☐ 100

Which of the following expressions can be simplified to an integer? (Select all that apply)

☐ √4
☐ √10
☐ √16
☐ √36

Which of the following is the conjugate of 4 + √3?

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○ 4 - √3
○ 4 + √3
○ -4 + √3
○ -4 - √3

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