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U12 CW #5*Solve Equations using Roots*

In the problems below, we review how to solve some basic equations.

* + 1. First, write the inverse operation used to solve each of following equations

Then show the steps used to solve the equation, show all work.

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1. What does an inverse operation do?
2. ***Write an equation*** then ***solve*** to find the side length of a square with an area of 25 cm2.

A = 25 cm2

1. Now consider the equation out of context. Is 5 the only solution? In other words, is 5 the only number that makes this equation true when substituted in for *x*?
2. Write and solve an equation to find the side length of a cube with a volume of 27 in3.

V = 27 in3

1. Now consider the equation out of context. Is 3 the only solution? In other words, is 3 the only number that makes this equation true when substituted in for *x*?
2. State the inverse operation you would use to solve these equations. Solve each equation.

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1. Solve the equations below. Express your answer in simplest radical form.

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|  |  | 1. where *p* is a positive rational number
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1. Estimate the solution. Use a calculator to check your estimate.