Name _____   Date _____

Square and Cube Roots - Guided Lesson Explanation

Explanation#1

We know the root number is an equal factor of the number.

$64 = 8 \times 8$ or -8×-8

$x^2 = 64$

$x = \pm \sqrt{64}$

$x = \pm 8$

Explanation#2

We know the root number is an equal factor of the number. To solve the problem we are going to need to find the root of 9/16.

$y = \pm \sqrt{\dfrac{9}{16}}$

We are lucky because the roots of 9 (3) and 16 (4) are whole numbers.

$y = \pm \dfrac{3}{4}$

Explanation#3

Area is base times length. Squares have equal sides.

So we will calculate $x^2 = 49$

$x^2 = 49$

$x = \pm\sqrt{49}$

So $x = \pm 7$