Name _____ Date _____

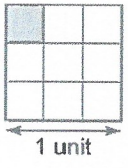
Master 1.16

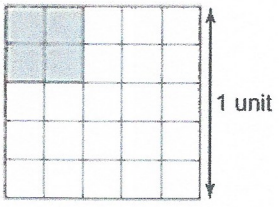
Extra Practice 1

Lesson 1.1: Square Roots of Perfect Squares

1. Use each diagram to determine the value of the square root.

a) $\sqrt{\frac{1}{9}}$ **b)** $\sqrt{0.16}$





2. Which numbers below are perfect squares? How do you know?

a) $\frac{25}{121}$ **b)** 2.89 **c)** $\frac{2}{50}$ **d)** 0.004

3. Calculate the number whose square root is:

a) $\frac{5}{7}$ **b)** 1.6 **c)** 0.92 **d)** $\frac{10}{9}$

4. Determine the value of each square root.

a) $\sqrt{\frac{225}{49}}$ **b)** $\sqrt{\frac{9}{25}}$ **c)** $\sqrt{\frac{400}{324}}$ **d)** $\sqrt{\frac{8}{98}}$

5. Determine the value of each square root.

a) $\sqrt{6.76}$ **b)** $\sqrt{327.61}$ **c)** $\sqrt{0.0025}$ **d)** $\sqrt{0.0225}$

6. The area of a square garden is 12.25 m^2.

a) Determine the perimeter of the garden.
b) The owner decides to put a gravel pathway around the garden. This reduces the area of the garden by 4.96 m^2. What is the new side length of the garden?