Square Roots

- 1. Find the positive value of *x* that makes each equation true. Check your solution.
- a) $x^2 = 169$

b) $625 = x^2$

c) $x^2 = 64$

2. A square-shaped park has an area of $324 yd^2$. What are the dimensions of the park? Write and solve an equation.

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Square Roots

1. Find the positive value of *x* that makes each equation true. Check your solution.

a)
$$x^2 = 169$$

 $x^2 = 169$
 $\sqrt{x^2} = \sqrt{169}$
 $x = \sqrt{169}$
 $x = 13$
Check:
 $13^2 = 169$
 $169 = 169$

b)
$$625 = x^2$$

$$625 = x^2$$
Check: $\sqrt{625} = \sqrt{x^2}$ $625 = 25^2$ $\sqrt{625} = x$ $625 = 625$ $25 = x$ $625 = 625$

c) $x^2 = 64$

$$x^{2} = 64$$
 Check:
 $\sqrt{x^{2}} = \sqrt{64}$ $8^{2} = 64$
 $x = \sqrt{64}$ $64 = 64$

2. A square-shaped park has an area of $324 yd^2$. What are the dimensions of the park? Write and solve an equation.

$x^2 = 324$	Check:
$\sqrt{x^2} = \sqrt{324}$ $x = \sqrt{324}$ $x = 18$	$18^2 = 324$ 324 = 324

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