

Name: _____

Period: _____

Date: _____

Puzzle 13: Crossword Square Roots

Evaluate the square roots and complete the puzzle in words.

10 $\sqrt{49}$

$\sqrt{0}$

$\sqrt{225}$

$\sqrt{1}$

$\sqrt{400}$

$\sqrt{256}$

$\sqrt{6400}$

$\sqrt{100}$

$\sqrt{900}$

$\sqrt{2500}$

$\sqrt{121}$

$\sqrt{1600}$

$\sqrt{4}$

$\sqrt{81}$

$9\sqrt{100}$

$\sqrt{36}$

$\sqrt{9}$

$\sqrt{144}$

$\sqrt{25}$

$\sqrt{64}$

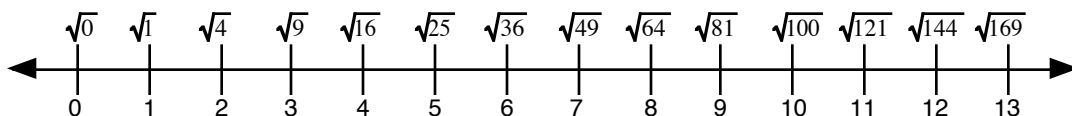
$\sqrt{100}$

Two cartoon frogs are shown at the bottom of the puzzle. The frog on the left is wearing glasses and has a question mark above its head. The frog on the right also has a question mark above its head.

Puzzle 13: Crossword Square Roots

Mini-Lesson: Square Roots

- 1) On graph paper, draw and label a number line from 0 to 13. On top of each number place its square root equivalent.



- 2) Ask students:

Q: Do you know the exact value of $\sqrt{42}$?

A: No

Q: Where would you place $\sqrt{42}$ on the number line?

A: Between 6 and 7.

Q: Why?

A: Because 42 is between 36 and 49.

Q: So, even though you don't know the exact value of $\sqrt{42}$, what do you know?

A: That $\sqrt{42}$ is greater than six but smaller than seven.

- 3) Repeat part 2 with different square roots.

Answer Key

