math Antics Exercises

Name: _____

Date: _____

Exponents & Square Roots

1 Fill in the blank.

This symbol $\sqrt{}$ without any index number, is the square (or 2nd) root.

2 Fill in the blank.

The root sign is also called the radical sign.

3 Fill in the blank.

Exponents and Roots are inverse operations.

4 Use what you know about exponents and roots to fill in the missing number.

$7^2 = 49$

$\sqrt[2]{49} = 7$

5 Use what you know about exponents and roots to fill in the missing number.

$3^4 = 81$

$\sqrt[4]{81} = 3$

6 Use what you know about exponents and roots to fill in the missing number.

$\sqrt[3]{125} = 5$

$5^3 = 125$

7 Use the multiplication table to find the roots of these "perfect squares".

$\sqrt{25} = 5$ $\quad \sqrt{64} = 8$

$\sqrt{36} = 6$ $\quad \sqrt{100} = 10$

8 Calculate this cube root.

$\sqrt[3]{8} = 2$

9 Use the root function on a calculator to find the value of this root. (Round your answer to 2 decimal places.)

$\sqrt{2} = 1.41$

10 Use the root function on a calculator to find the value of this root. (Round your answer to 2 decimal places.)

$\sqrt[3]{2} = 1.26$

See Video for step-by-step solutions to each problem.

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