Name:

Date:

Exponents In Algebra

1 Solve.

$$8^0 = 1$$

$$b^0 = 1$$

Solve.

$$8^1 = 8$$

$$b^1 = b$$

Solve.

$$\left(\sqrt{10}\right)^2 = \underline{10}$$

$$(\sqrt[3]{15})^3 = 15$$

✓ Solve. (assume $x \ge 0$)

$$\sqrt[2]{\mathbf{x}^2} = \mathbf{X}$$

$$\sqrt[3]{\mathbf{x}^3} = \mathbf{X}$$

Solve for x.

$$\sqrt{\mathbf{x}} = 5$$

$$\sqrt{x}^2 = 5^2$$

$$x = 25$$

Solve for x.

$$x^2 = 49$$

$$\sqrt{x^2} = \pm \sqrt{49}$$

$$x = \pm 7$$

7 Solve for x.

$$\sqrt{x} = 10$$

$$\sqrt{x}^2 = 10^2$$

$$x = 100$$

Solve for x.

$$x^2 = 81$$

$$\sqrt{x^2} = \pm \sqrt{81}$$

$$x = \pm 9$$

Solve for x.

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

$$\sqrt[3]{x}^3 = 4^3$$

$$x = 64$$

1 Solve for x.

$$x^4 = 16$$

$$\sqrt[4]{x^4} = \pm \sqrt[4]{16}$$

$$x = \pm 2$$