

Exponents & Square Roots

1 Fill in the blank.

This symbol $\sqrt{\quad}$
without any index number,
is the _____ root.

2 Fill in the blank.

The root sign is also called the
_____ sign.

3 Fill in the blank.

Exponents and Roots are
_____ operations.

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

$$7^2 = 49$$

$$\sqrt[2]{49} = \underline{\quad}$$

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

$$3^4 = 81$$

$$\sqrt[4]{81} = \underline{\quad}$$

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

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

$$\underline{\quad}^3 = 125$$

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

$$\sqrt{25} = \underline{\quad} \quad \sqrt{64} = \underline{\quad}$$

$$\sqrt{36} = \underline{\quad} \quad \sqrt{100} = \underline{\quad}$$

8 Calculate this cube root.

$$\sqrt[3]{8} = \underline{\quad}$$

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



$$\sqrt{2} =$$

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



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