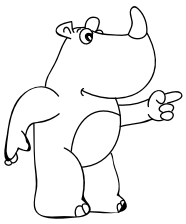
# Squares, Cubes, and Roots

Squares, cubes, square roots, and cube roots may seem like difficult math problems at first, but once you learn how to solve them, you will find that they are both easy and fun!



- The **square** of a number is the number times itself.
- The **square root** of a number is a number that can be multiplied by itself to give the original number. It is the inverse operation of squaring a number.
- The **cube** of a number is the number multiplied by itself twice.
- The **cube root** of a number is, a value that when cubed, gives the original number. It is the inverse operation of cubing a number.

**Examples**

**Square: $5^2 = 5 \times 5 = 25$**

**Square Root: $\sqrt{25} = 5^2 (5x5=25)$**

**Cube: $5^3 = 5 \times 5 \times 5 = 125$**

**Cube Root: $\sqrt[3]{125} = 5^3 (5x5x5=125)$**

Write the **square** or **cube** of each number.

1) $13^2 =$ _____
2) $4^3 =$ _____
3) $9^2 =$ _____
4) $5^3 =$ _____
5) $2^2 =$ _____
6) $6^3 =$ _____
7) $48^2 =$ _____
8) $3^3 =$ _____
9) $7^2 =$ _____

Write the **square root** of each number.

1) $\sqrt{16} =$ _____
2) $\sqrt{9} =$ _____
3) $\sqrt{25} =$ _____
4) $\sqrt{81} =$ _____
5) $\sqrt{1} =$ _____
6) $\sqrt{4} =$ _____
7) $\sqrt{49} =$ _____
8) $\sqrt{36} =$ _____
9) $\sqrt{100} =$ _____

Write the **cube root** of each number.

1) $\sqrt[3]{64} =$ _____
2) $\sqrt[3]{1} =$ _____
3) $\sqrt[3]{125} =$ _____
4) $\sqrt[3]{216} =$ _____
5) $\sqrt[3]{8} =$ _____
6) $\sqrt[3]{1,728} =$ _____
7) $\sqrt[3]{343} =$ _____
8) $\sqrt[3]{0} =$ _____
9) $\sqrt[3]{729} =$ _____