
Squares and Square Roots (A)

Instructions: Find the square root or square of each integer.

$$\sqrt{256} = \quad \sqrt{4} = \quad \sqrt{169} = \quad \sqrt{100} =$$

$$\sqrt{121} = \quad \sqrt{196} = \quad \sqrt{16} = \quad \sqrt{64} =$$

$$\sqrt{1} = \quad \sqrt{9} = \quad \sqrt{49} = \quad \sqrt{144} =$$

$$\sqrt{225} = \quad \sqrt{81} = \quad \sqrt{25} = \quad \sqrt{36} =$$

$$11^2 = \quad 13^2 = \quad 14^2 = \quad 10^2 =$$

$$12^2 = \quad 1^2 = \quad 15^2 = \quad 6^2 =$$

$$9^2 = \quad 3^2 = \quad 4^2 = \quad 16^2 =$$

$$8^2 = \quad 7^2 = \quad 5^2 = \quad 2^2 =$$

Cubes and Cube Roots (A)

Instructions: Find the cube root or cube of each integer.

$$\sqrt[3]{1728} = \quad \sqrt[3]{343} = \quad \sqrt[3]{1} = \quad \sqrt[3]{2197} =$$

$$\sqrt[3]{64} = \quad \sqrt[3]{1000} = \quad \sqrt[3]{729} = \quad \sqrt[3]{125} =$$

$$\sqrt[3]{512} = \quad \sqrt[3]{2744} = \quad \sqrt[3]{1331} = \quad \sqrt[3]{4096} =$$

$$\sqrt[3]{8} = \quad \sqrt[3]{3375} = \quad \sqrt[3]{216} = \quad \sqrt[3]{27} =$$

$$9^3 = \quad 15^3 = \quad 12^3 = \quad 3^3 =$$

$$1^3 = \quad 14^3 = \quad 8^3 = \quad 5^3 =$$

$$13^3 = \quad 6^3 = \quad 2^3 = \quad 4^3 =$$

$$11^3 = \quad 10^3 = \quad 7^3 = \quad 16^3 =$$

Name: _____

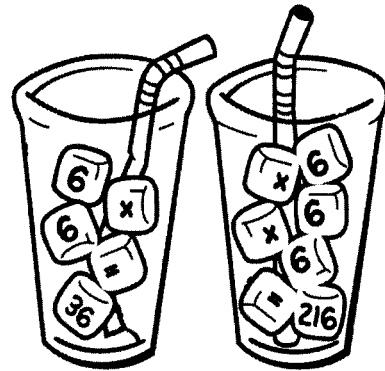
Date: _____

The **square** of a number is the number times itself.

$$5^2 = 5 \times 5 = 25$$

The **cube** of a number is the number multiplied twice by itself.

$$5^3 = 5 \times 5 \times 5 = 125$$



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

- | | | |
|------------------------------|----------------|----------------|
| A. $4^2 =$ <u>4 x 4 = 16</u> | $9^2 =$ _____ | $3^3 =$ _____ |
| B. $6^3 =$ _____ | $7^2 =$ _____ | $15^3 =$ _____ |
| C. $10^3 =$ _____ | $5^3 =$ _____ | $14^2 =$ _____ |
| D. $20^2 =$ _____ | $24^3 =$ _____ | $19^3 =$ _____ |
| E. $8^3 =$ _____ | $13^2 =$ _____ | $48^2 =$ _____ |
| F. $17^2 =$ _____ | $25^3 =$ _____ | $37^2 =$ _____ |

Write the **square** root.

- G. $36 = \sqrt{6^2}$ $64 =$ _____ $81 =$ _____ $25 =$ _____ $324 =$ _____ $529 =$ _____
- H. $100 =$ _____ $49 =$ _____ $4 =$ _____ $16 =$ _____ $121 =$ _____ $1,600 =$ _____
- I. $400 =$ _____ $225 =$ _____ $625 =$ _____ $144 =$ _____ $900 =$ _____ $2,500 =$ _____

Write the **cube** root.

- J. $125 = \sqrt[3]{5^3}$ $1,000 =$ _____ $64 =$ _____ $27 =$ _____ $8 =$ _____ $216 =$ _____
- K. $512 =$ _____ $1,728 =$ _____ $2,744 =$ _____ $343 =$ _____ $8,000 =$ _____ $6,859 =$ _____

Squares, Cubes and Roots**The link to shapes and 3D objects**

1. Calculate the area for each square, given the side length. Show your work.

	Side length	WORK	Area
a	3 cm		
b	12 cm		
c	4.5 mm		
d	8.4 m		

2. Calculate the side length for each square, given the area. Show your work.

	Area	WORK	Side length
a	36 m^2		
b	196 cm^2		
c	6.25 m^2		
d	0.0361 mm^2		

3. Calculate the volume for each cube, given the side length. Show your work.

	Side length	WORK	Volume
a	8 m		
b	15 cm		
c	0.25 m		
d	1.7 cm		

2. Calculate the side length for each cube, given the volume. Show your work.

	Volume	WORK	Side length
a	729 mm^3		
b	5832 m^3		
c	35.937 cm^3		
d	1.728 m^3		