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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: $\sqrt{25} = 5^2(5 \times 5 = 25)$

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

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

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

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

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

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

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

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

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Use $<$, $>$, or $=$ to make the statement true.

$$\frac{17}{2} \quad \sqrt{63}$$

- A. $<$ B. $>$
C. $=$ D. Not Possible

31

Radicals and Irrationals

Use $<$, $>$, or $=$ to make the statement true.

$$\frac{35}{4} \quad \sqrt{82}$$

- A. $<$ B. $>$
C. $=$ D. Not Possible

32

Radicals and Irrationals

Use $<$, $>$, or $=$ to make the statement true.

$$\sqrt{20} \quad \sqrt{20}$$

- A. $<$ B. $>$
C. $=$ D. Not Possible

33

Radicals and Irrationals

Use $<$, $>$, or $=$ to make the statement true.

$$10\frac{1}{2} \quad \sqrt{105}$$

- A. $<$ B. $>$
C. $=$ D. Not Possible

34

Radicals and Irrationals

Use $<$, $>$, or $=$ to make the statement true.

$$\sqrt{-40} \quad \sqrt{5}$$

- A. $<$ B. $>$
C. $=$ D. Not Possible

35

Radicals and Irrationals

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8th grade cubes and cube roots worksheets for class 8.

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Thus, cube of $2 = 2 \times 2 \times 2 = 8$ similarly cube of $4 = 4 \times 4 \times 4 = 64$ Perfect cube: We know that $2^3 = 8$ and $3^3 = 27$ The numbers 8, 27, 216, 343, ...

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