

Square Roots

Ex. $\sqrt{9} = 3$ because 3^2 or $3 \cdot 3 = 9$

Perfect square: value of an integer to second power.

Ex. 100 is a perfect square because $10^2 = 100$

Ex. $\sqrt{100} = 10$

$-\sqrt{100} = -10$

$\pm\sqrt{100} = \pm 10$

Ex. cube root $\sqrt[3]{8} = \boxed{2}$ $2 \cdot 2 \cdot 2 = 8$

Estimating Square Roots

Ex. Estimate $\sqrt{24}$ to the nearest tenth

$\sqrt{16}$, $\sqrt{24}$, $\sqrt{25}$

4 ? 5

≈ 4.8 or ≈ 4.9

