Reteaching 1-3 .... **Cube Roots**
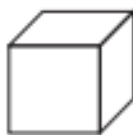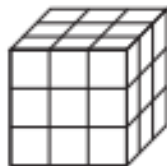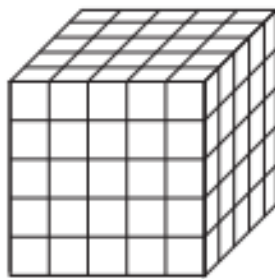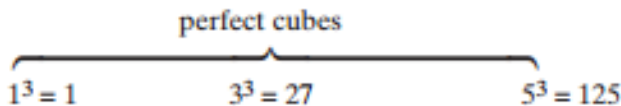
The cube of 1 is 1.

$1 \times 1 \times 1 = 1^3 = 1$

The cube of 3 is 27.

$3 \times 3 \times 3 = 3^3 = 27$

The cube of 5 is 125.

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

perfect cubes

$1^3 = 1$ $3^3 = 27$ $5^3 = 125$

Example: You can solve cube root equations: $x^3 = \frac{27}{216}$

$\sqrt[3]{x^3} = \sqrt[3]{\frac{27}{216}}$ ← **Find the cube root of each side.**

$= \frac{\sqrt[3]{27}}{\sqrt[3]{216}}$ ← **Find the cube root of the numerator and denominator.**

$x = \frac{3}{6} = \frac{1}{2}$ ← **Simplify.**

Find the cube root of each number.

1. 729

_____

2. 125

_____

3. 512

_____

4. −64

_____

5. $\frac{1}{216}$

_____

6. $\frac{125}{1000}$

_____

Solve each equation by finding the value of x.

7. $x^3 = 27$

_____

8. $x^3 = 1{,}728$

_____

9. $x^3 = \frac{343}{729}$

_____