L2 Perfect Squares and Cubes

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Lesson 2 Perfect Squares, Cubes, and their Roots

Recall:

Perfect Square: a number that can be expressed as the product of two equal factors ie. 1, 4, 9, 16, 25, 36, 49, 64...

Square Root: a number which multiplied by itself, gives you the original number

Perfect Cube: a number that can be expressed as the product of three equal factors ie. 1, 8, 27, 64, 125, 216...

Cube Root: a number which multiplied by itself three times produces the original number

Example 1: Determining the Square Root of a Whole Number

Determine the square root of 1600.

Example 2: Determining the Cube Root of a Whole Number

Determine the cube root of 1728.

$$\frac{1728}{4836}$$
 $\frac{1728}{4836}$
 $\frac{1728}{4836}$
 $\frac{1728}{4836}$
 $\frac{1728}{12}$
 $\frac{1728}{12}$
 $\frac{1728}{12}$

Example 3: Using Roots to Solve Problems

A square has an area of 576 cm². Determine the side length of the square.

