

Estimating Square Roots Worksheet - Notes

A perfect square is

$1^2 =$	$2^2 =$	$3^2 =$	$4^2 =$	$5^2 =$	$6^2 =$	$7^2 =$	$8^2 =$
$9^2 =$	$10^2 =$	$11^2 =$	$12^2 =$	$13^2 =$	$14^2 =$	$15^2 =$	$16^2 =$

A square root is

$\sqrt{196} =$	$\sqrt{256} =$	$\sqrt{169} =$
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For an integer that is not a perfect square you can estimate a square root.

Example 1: What are the two whole numbers that are closest to $\sqrt{8}$?

To solve this, you just need to find the two perfect squares that are directly above and below the number.
(Use a number line if you need to)

Example 2: What are the two whole numbers that are closest to $\sqrt{135}$?

Example 3: What are the two whole numbers that are closest to $\sqrt{200}$?

Example 4: What are the two whole numbers that are closest to $\sqrt{192}$?

Example 5: What are the two whole numbers that are closest to $\sqrt{37}$?