

Approximating Square Roots



Approximating Square Roots (to the nearest hundredth)

Approximate $\sqrt{27}$

Step 1: Determine the consecutive integers $\sqrt{27}$ is between.

$\sqrt{27}$ Irrational Number
 Lower Perfect Square \swarrow \searrow Upper Perfect Square
 Integer \downarrow \downarrow Integer

Step 2: Simplify the following ratio to determine an approximate fraction.

$$\frac{\text{Irrational} - \text{Lower Perfect Square}}{\text{Upper Perfect Square} - \text{Lower Perfect Square}}$$

Step 3: Write a mixed number, then change the fraction to a decimal (rounding to the nearest hundredth).

$\sqrt{27} = \square \frac{\square}{\square} = \square$

Approximate $\sqrt{135}$

$\sqrt{135}$
 \swarrow \searrow
 \square \square
 \downarrow \downarrow
 \square \square
 \downarrow \downarrow
 \square \square
 \downarrow \downarrow
 \square \square
 \downarrow \downarrow
 \square \square

$135 = \square$

$\sqrt{135} = \square$

$57 = \square$

Approximating Square Roots Name: _____ Date: _____

Show your work. Round answers to the nearest hundredth.

1 $\sqrt{63}$	2 $\sqrt{45}$
3 $\sqrt{176}$	4 $\sqrt{136}$
5 $\sqrt{2}$	6 $\sqrt{20}$



Interactive Notes + Worksheet

Estimating Square Roots Activity

J Dewey



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