

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 $\swarrow$ $\searrow$ Bigger Perfect Square
 Integer $\downarrow$ $\downarrow$ Integer

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

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

$$\frac{\boxed{} - \boxed{}}{\boxed{} - \boxed{}} = \frac{\boxed{}}{\boxed{}}$$

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

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

Approximate $\sqrt{135}$

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

$135 = \boxed{}$

Approx $\sqrt{135} = \boxed{} \frac{\boxed{}}{\boxed{}} = \boxed{}$

$57 = \boxed{}$

Approximating Square Roots Name: _____ Date: _____

Show your work. Round answers to the nearest hundredth.

1 $\sqrt{63}$	2 $\sqrt{45}$
3 $\sqrt{176}$	4 $\sqrt{135}$
5 $\sqrt{2}$	6 $\sqrt{20}$



Interactive Notes + Worksheet

Estimating Square Roots Activity

Huangqi Zhang



Estimating Square Roots Activity:

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