NAME:

THE NUMBER SYSTEM
CCSS 8.NS.1

Irrational Numbers

Use the information below and what you know about irrational numbers to answer the question that follows.

> An irrational number is a number that cannot be expressed as a fraction. Any decimals that are not terminating and do not repeat are irrational numbers. More technically, a rational number is a number that can be expressed in the form $\frac{x}{y}$, where x and y are integers and y is not 0.

Is $\sqrt{2}$ an irrational number? Why or why not? Explain your thinking.

NAME:

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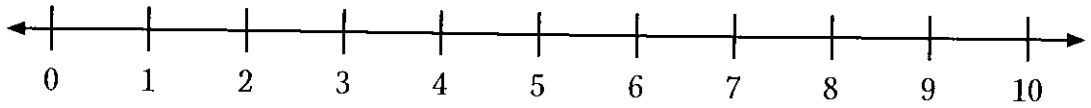
Where Do They Go?

Using the number line below, show approximately where each number would fall. Explain your thinking.



1. $\sqrt{96}$

2. $\sqrt{35}$

3. $\sqrt{24}$

4. $\sqrt{17}$