Lesson 2.1 Understanding Rational and Irrational Numbers

A **rational number** is a number that either terminates or repeats a pattern. It can be written as a fraction, $\frac{a}{b}$, where a and b are both whole number integers and b does not equal zero.

Here are some examples of rational numbers: 3, -5, $\frac{1}{3}$, $4.\overline{66}$, $\frac{5}{11}$, 3.25

An **irrational number** is any decimal that does not terminate and never repeats. These numbers are often represented by symbols.

Here are some examples of irrational numbers: $5.23143...,\sqrt{5}$, π

Tell if each number is rational or irrational.

b

2.
$$\sqrt[3]{27}$$

$$-\frac{4}{5}$$

$$\pi$$

$$-\frac{7}{10}$$