

Slide 1:

How would you describe the numbers shown in slide 1?

Slide 3:

Your teacher explains that each of the numbers in slide 1 is also a *rational number*.

Using what you already know about these numbers how might you describe a *rational number*?

Slide 6:

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

What do you think a *number in the form $\frac{m}{n}$* refers to?

What are some other ways to describe numbers written in the form $\frac{m}{n}$?

Slide 8

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

In the form $\frac{m}{n}$, why can't *n* be zero?

Slide 11:

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

If the form $\frac{m}{n}$ is referring to a fraction, what happens if the number is a *whole number*?

Can a *whole number* be written in the form $\frac{m}{n}$?

Slide 13:

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

If the form $\frac{m}{n}$ is referring to a fraction, what happens if the number is a *decimal number*?

Can a *decimal number* be written in the form $\frac{m}{n}$?

Slide 16:

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

How would you describe numbers that are *integers*?

Slide 18:

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

Can an *integer* be written in the form $\frac{m}{n}$?

Slide 20:

Two students are trying to agree upon a definition for rational numbers...

One student stated that a rational number is simply an integer

The other student stated that a rational number is the quotient of two integers

How would you explain/demonstrate that both students are correct?

Slide 22:

If a rational number is *the quotient of two integers...*

How do you determine the quotient of two integers?

What could the quotient of two integers look like?

Slide 24:

Compare the two descriptions of a rational number

A rational number is any number that can be written in the form $\frac{m}{n}$, where *m and n are integers and $n \neq 0$*

A rational number can be written as a quotient of 2 integers with a zero denominator

Can you identify key words that you could use when determining if a number is a rational number?

Slide 26:

How would you use your keywords to explain/demonstrate that -7 is a rational number?

Slide 28:

How would you use your keywords to explain/demonstrate that $\frac{7}{8}$ is a rational number?

Slide 30:

How would you use your keywords to explain/demonstrate that $\frac{-9}{4}$ is a rational number?

Slide 32:

How would you use your keywords to explain/demonstrate that -0.75 is a rational number?

A rational number is any number that can be written in the form $\frac{m}{n}$, where m and n are integers and $n \neq 0$

A rational number is the quotient of two integers

- I can explain/write a number in the form $\frac{m}{n}$
- I can explain/demonstrate why $n \neq 0$
- I can define/write integer values
- I can explain/demonstrate how I determine the quotient of two integers
- I can write examples of rational numbers
- I can explain why a number is a rational number