

12.1

Rational Numbers

Today's Learning Goals:

- I can understand that a rational number is an integer divided by an integer.
- I can convert rational numbers to decimals.

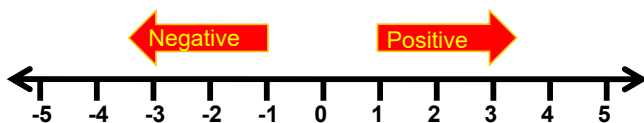
Kinds of Numbers

Natural Numbers

Whole Numbers

Integers

_____ or _____ whole number, including zero.



Rational Number

a number that can be written as a _____.

What's a Rational Number?

A number that can be written as the ratio

_____ where a and b are _____ and $b \neq 0$.

Examples:

Decimal Places

Ten-Thousands	Thousands	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths	Ten-Thousandths
1	5,3	2	8	.	7	4	9	6	

Reading & writing a decimal

Write the following decimals in words.

- 1) 3.4
- 2) 0.08
- 3) 5.013

Ordering Decimals

Use $<$, $>$, or $=$ to compare the following:

- 4) 0.64 ____ 0.68
- 5) 0.2 ____ 0.02
- 6) 0.050 ____ 0.05
- 7) 7.45 ____ 7.050

Ordering Decimals

Order the following decimals from least to greatest

- 8) 2.3 , 2.09 , 2.32 , 2.27 , 2.37
- 9) 0.25 , 0.5 , 2.5 , 0.2 , 0.02
- 10) 0.10 , 0.07 , 0.17 , 1.7 , 0.7

Converting Fractions to Decimals

Convert the following into a decimal:

1) $\frac{4}{5}$

2) $-\frac{3}{8}$

Converting Fractions to Decimals

Convert the following into a decimal:

3) $-\frac{6}{5}$

4) $5\frac{3}{4}$

Converting Fractions to Decimals

Convert the following into a decimal:

5) $-7\frac{9}{25}$

Converting Fractions to Decimals

Convert the following into a decimal:

6) $-\frac{5}{9}$

6) $\frac{7}{11}$

Converting Decimals to Fractions

Convert the following into a fraction:

7) 0.8

8) 0.36

Converting Decimals to Fractions

Convert the following into a fraction:

9) 0.375

10) 7.45

Comparing and Ordering Rational Numbers

Use <, >, or =

11) $-1\frac{3}{10}$ _____ -1.03

12) $.625$ _____ $\frac{2}{3}$

Comparing and Ordering Rational Numbers

Order from least to greatest

13) $-\frac{1}{2}$, 0.04 , $\frac{3}{8}$, -0.45

Comparing and Ordering Rational Numbers

Order from least to greatest

14) $-\frac{3}{4}, -\frac{7}{3}, 1.2$