

Types of Numbers

Name: _____

★ LET'S LEARN ABOUT THE TYPES OF NUMBERS ★

✓ **Objective:** You will be able to...

- ~ classify numbers
- ~ identify what types of numbers would be most appropriate in certain situations

✧ **Why is learning about the types of numbers important?**

- they tell us amounts
- they appear in many places in everyday life
- helpful in activities such as baking, situations with money (taxes, tips, discounts/deals), determining gas mileage, many occupations, etc.
- without numbers we would not even have technology!
- important to recognize & understand vocabulary

➡ What do you know about numbers?

- can be natural
- can be prime (no factors other than 1 & themselves)
- can be irrational
- can be never-ending
 - pos./neg.
 - fractions, decimals

➡ What would you like to know/learn about when it comes to numbers?

- adding/sub.
- multiplying/dividing
- fractions & decimals
- scientific notation

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★ Let's Look at the Types of Numbers...

Real Numbers

Rational

- * can be written as fractions
- ex. $\frac{1}{2}$, $\frac{2}{3}$, 4 , -3 , 1.28 , $0.\overline{3}$
- * includes ending or repeating decimals

Integers

- positive & negative whole #s
- ... $-3, -2, -1, 0, 1, 2, 3, \dots$

Whole #s

- no fractions/decimals
- whole #s $0, 1, 2, 3, \dots$

Natural #s

- counting #s $1, 2, 3, 4, \dots$

There are also imaginary numbers! (Algebra II)

Irrational

- * cannot be written as fractions
- ex. π , e , $0.123456789101112\dots$, $\sqrt{10}$
- square roots of non-perfect squares

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