

Exploring Numbers Class Work

★ Look at the number on your desk. Record it, and answer each question. Be sure to provide a reason for your answers. 😊

Number: _____

Do you think your number is a real number? 	Do you think your number is a rational number? 	Do you think your number is an irrational number?
Do you think your number is a whole number? 	Do you think your number is an integer ? 	Do you think your number is a natural number?

★ Types of Numbers

Real Numbers

Non-Real Numbers

 **Practice!**

1. Name the set(s) to which each real number belongs. (rational, irrational, integer, whole, natural)

a. 3.82 _____

b. -23 _____

c. 11 _____

d. 0 _____

e. π _____

f. -201 _____

g. $\sqrt{5}$ _____

2. Write any number that meets each classification:

a. rational, but not an integer: _____ b. whole, but not natural: _____

c. an integer, but not a whole number: _____

3. What types of numbers are best to use for each real world situation?
(rational, irrational, integers, whole) **Support your answer.** 😊

a. The price of a ticket to a concert.

b. The number of friends you are inviting to a party.

c. The temperature anywhere in the world on the Weather Channel App.

d. The exact area of a circular field. Remember, the formula for area of a circle is $A = \pi r^2$.

4. Sonja says that all rational numbers are whole, but Jimmy says that all natural numbers are whole. Who do you agree with, and why?

Exit Activity:



On a post-it note, Write a “Tweet” about anything you learned today. (40 characters or less!)

Post it on the board when you are done, and draw a star on your “favorite!”