organized

Classifying Rational Numbers Activities

Teaching in and organized MESS

> The activities involved can be used as homework, assessment/exit tickets, small group instruction, stations, or partner work.

What's Included:

- Station Reflection Page
- Classify Numbers Sort
- Coloring Pages
- Word Problems
- Find the Error Venn Diagrams
- Always, Sometimes, Never Sort
- Classify Numbers Spin and Cover
- Classify Numbers Tic-Tac-Toe
- Classify Numbers Bump It
- Pass the Venn Diagram
- Answer Keys at the End

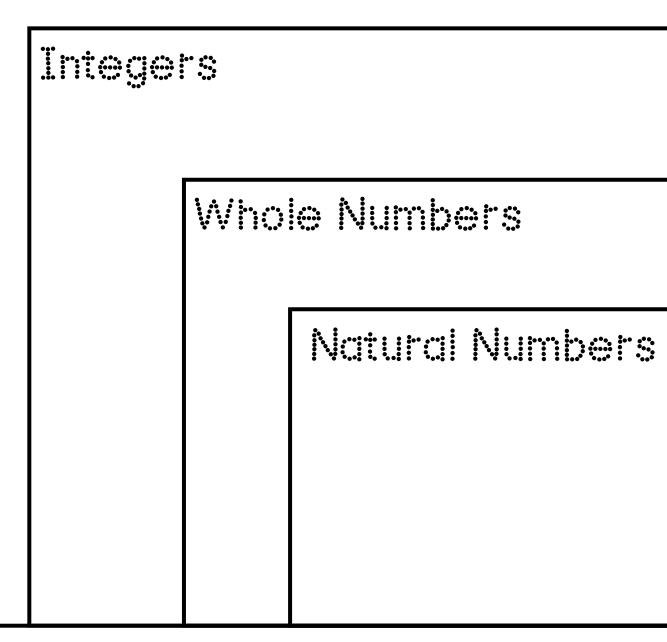
	Name:	Name:
	Classify Numbers Reflections	Classify Numbers Reflections
1.	I classified as a because	1. I classified as a because
2.	I did not classify as a because	2. I did not classify as a because
3.	I classified as a because	3. I classified as a because
4.	I did not classify as a because	4. I did not classify as a because
5.	I classified as a because	5. I classified as a because
6.	I did not classify as a because	6. I did not classify as a because

Name:_

Classify Numbers

Pull a number from the bag. Write the number in the correct place on the Venn Diagram below.

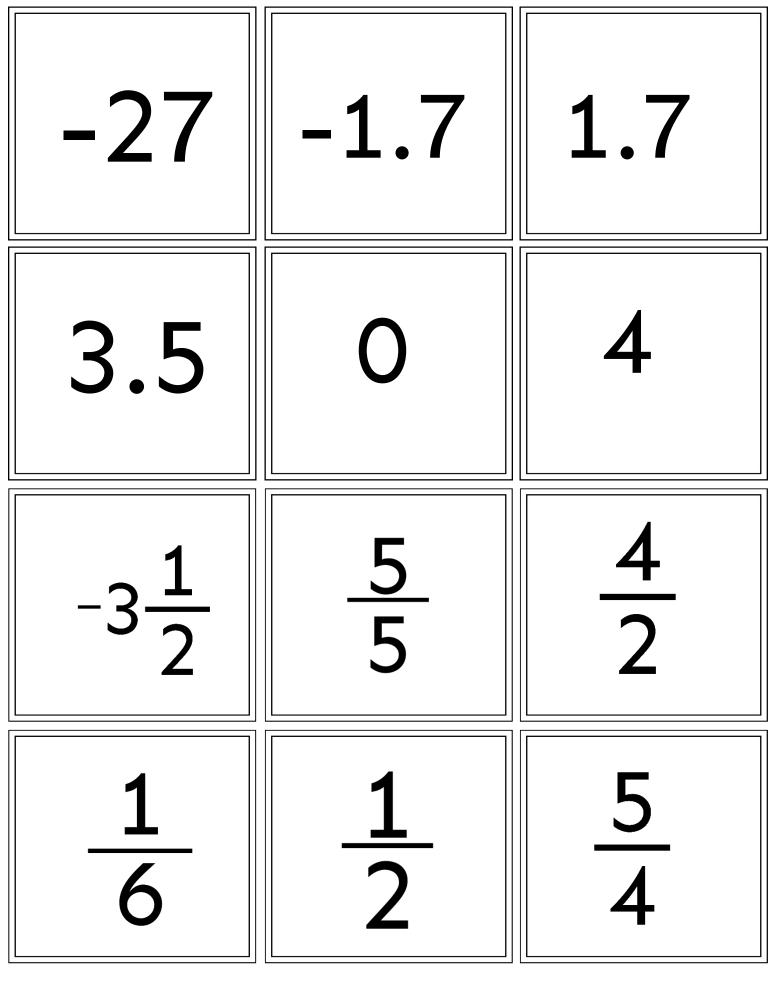
Rational Numbers

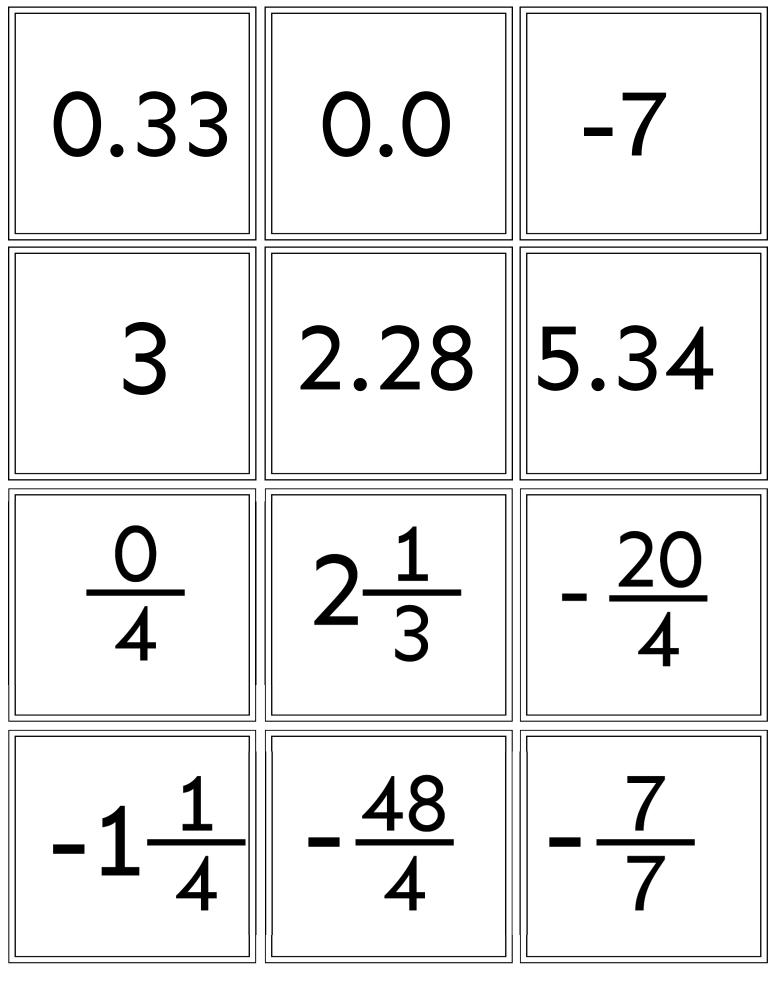


Classify Numbers^{Name:}

Pull a number from the bag. Write the number in the correct place in the table. Remember that a number can be in more than one classification.

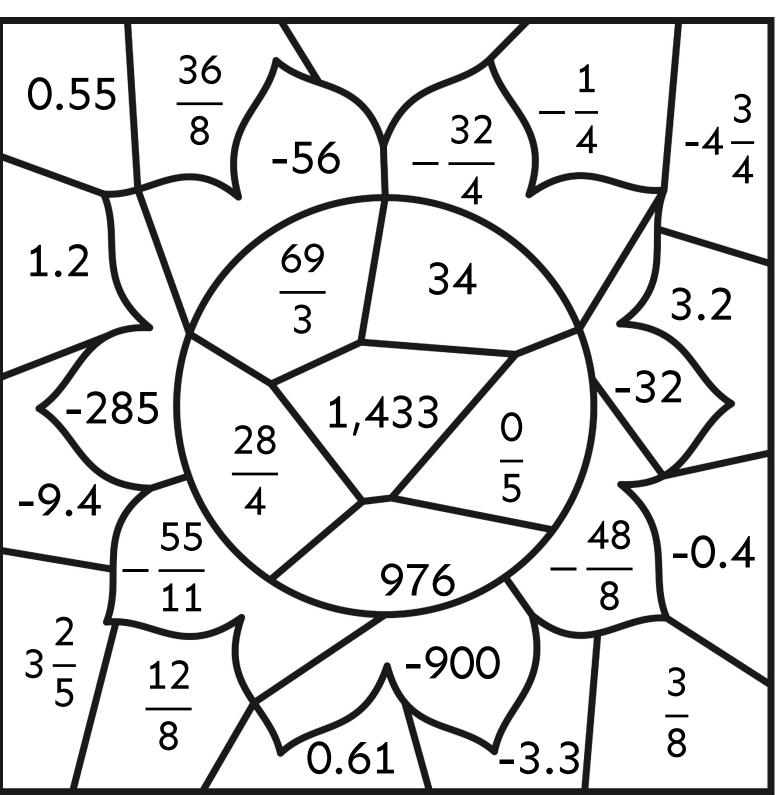
Natural Numbers	Whole Numbers
Integers	Rational Numbers
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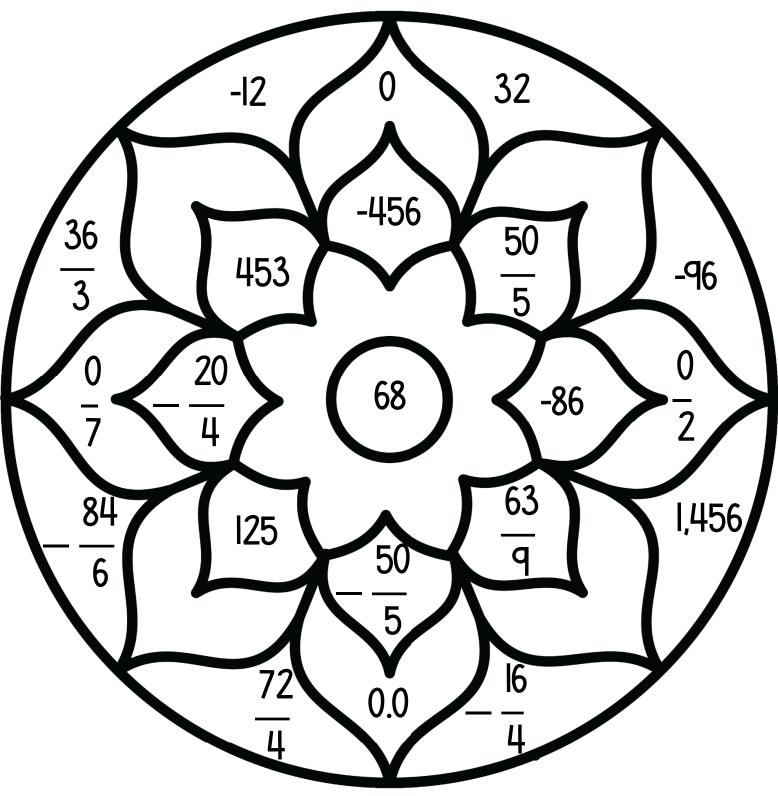
Color by Classification A

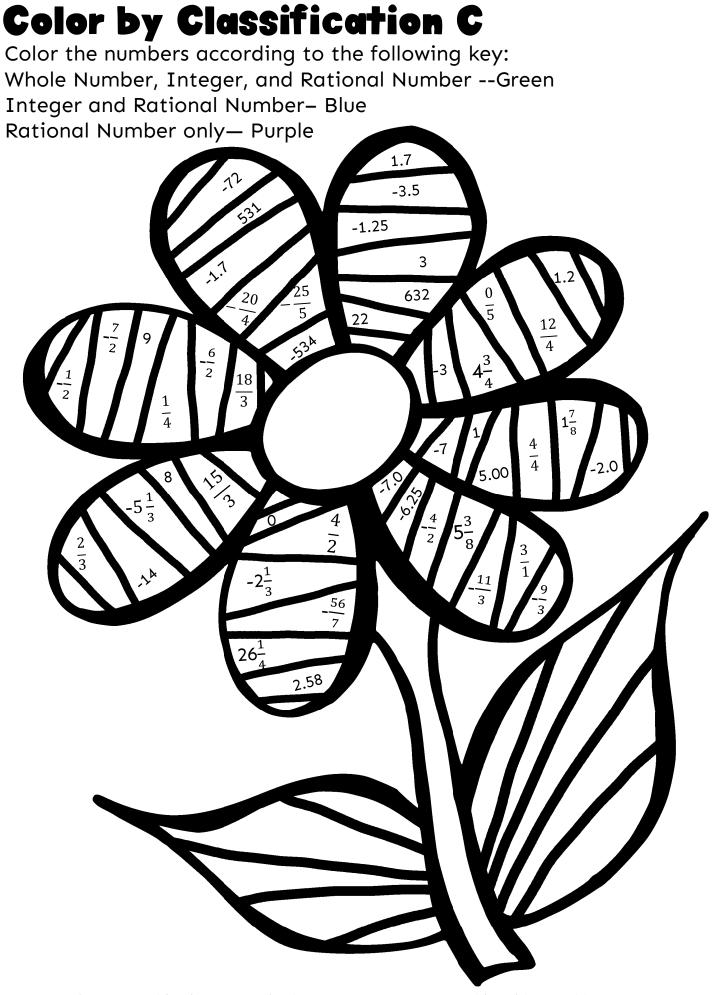
Color the numbers according to the following key: Whole Number, Integer, and Rational Number --Yellow Integer and Rational Number– Blue Rational Number only– Green



Color by Classification B

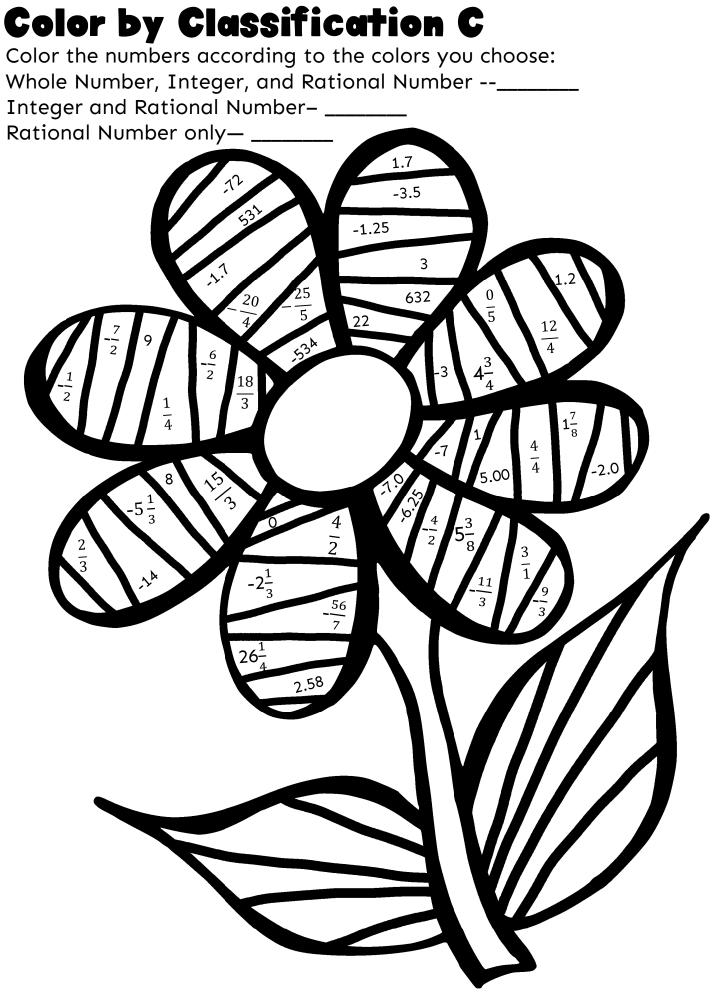
Color the numbers according to the following key: Natural Number, Whole Number, Integer, Rational Number- Blue Whole Number, Integer, and Rational Number --Red Integer and Rational Number- Yellow Rational Number only— Green





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Name:



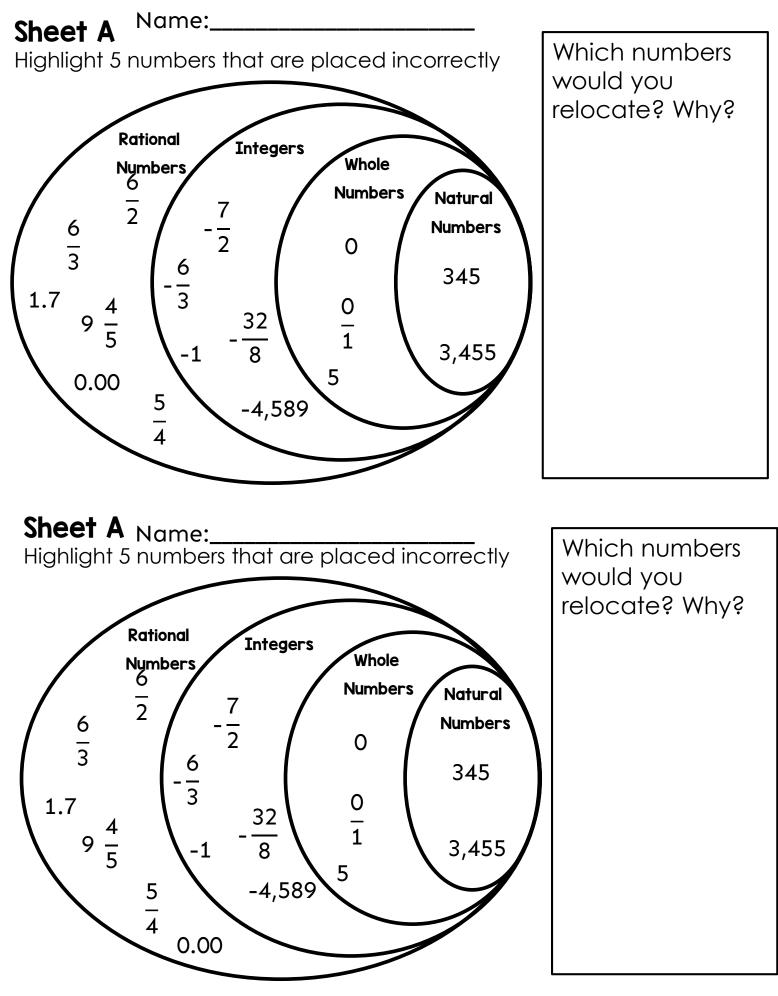
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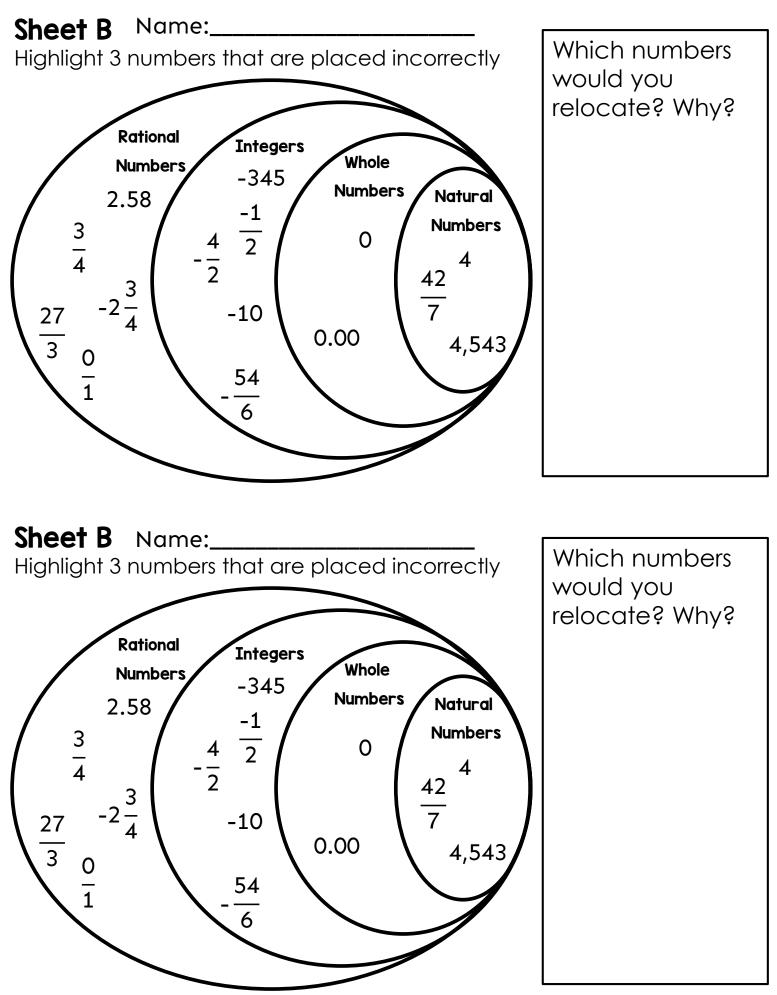
Name:

Name:_

Classify Rational Numbers

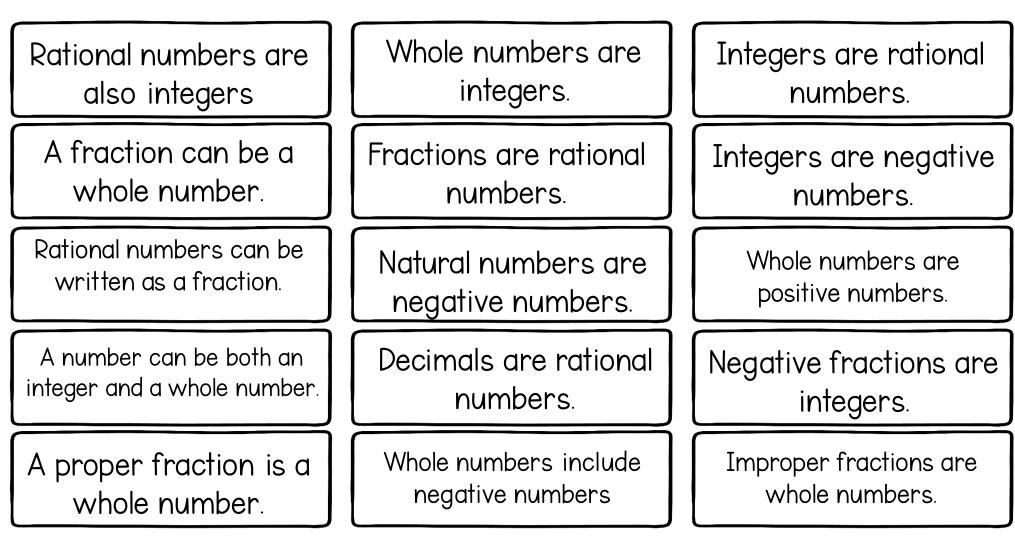
Which of the following numbers is a rational	Which statement is not true?
number but not an integer?	A All whole numbers and integers are
A4 B3.5 C. $-\frac{24}{8}$ D. 25	 A. All whole numbers and integers are rational numbers. B. All rational numbers can be written as a fraction. C. A whole number cannot be written as a fraction. D. All integers are whole numbers but not all whole numbers are integers.
Which set of numbers includes 2 integers that are not whole numbers and 2 rational numbers that are not integers?	How does an integer differ from a whole number?
A. $\frac{10}{5}$, -4, 3.2, $\frac{1}{2}$	
B9.34, 2, ⁴ / ₃ , -8	
C. $-\frac{4}{8}$, -4.5, 5, $-\frac{9}{3}$	
D. $-\frac{11}{8}$, 4.5, -5, $-\frac{9}{3}$	
Place $-rac{12}{9}$ correctly in the Venn Diagram. Rational Numbers	Write two whole numbers, two integers that are not whole numbers and two rational numbers that are not integers.
Integers Whole Numbers	
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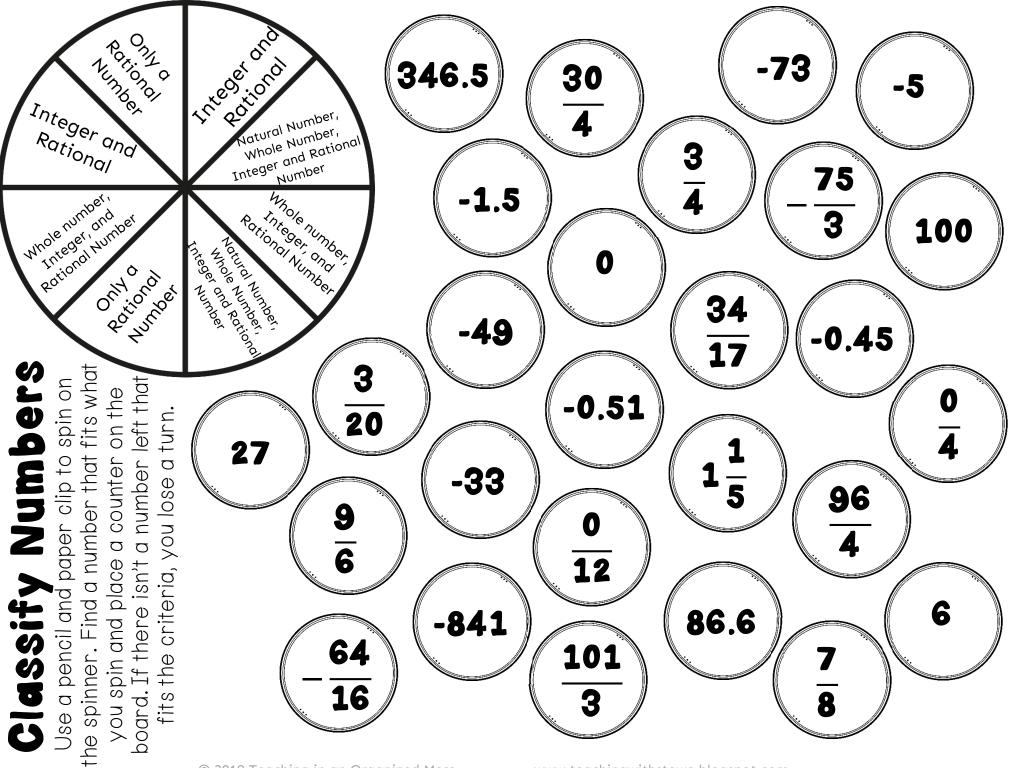


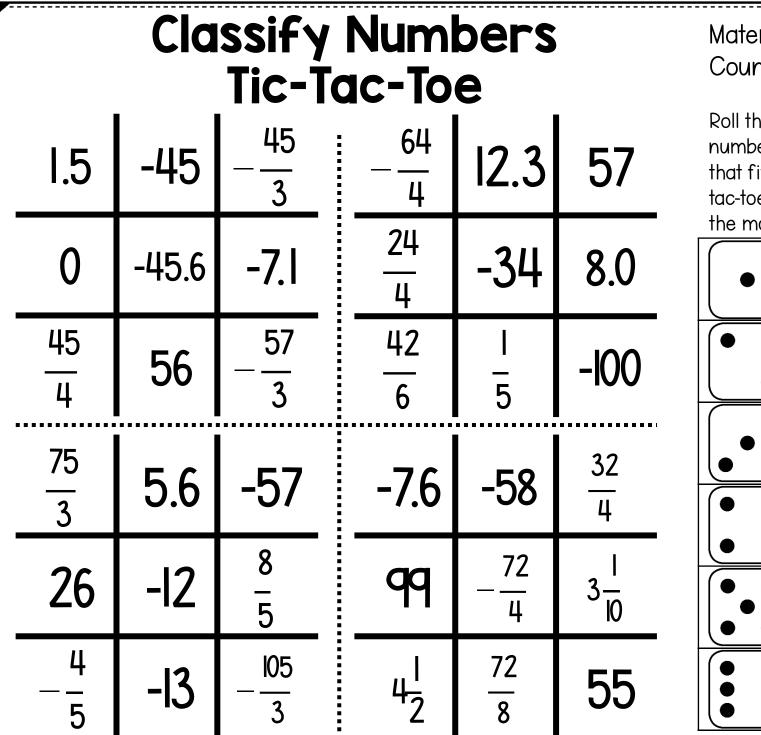
Always, Sometimes, Never Classifying Rational Numbers Cut out the cards. Determine if the statement is always true, sometimes true

Cut out the cards. Determine if the statement is always true, sometimes true or never true. Glue the statement in the correct place on the table.



Always	Sometimes	Never





Materials: Dice, Colored Counters

Roll the Die. Depending on the number you roll, find a number that fits the criteria on the tictac-toe board. The player with the most 3-in-a-row wins.

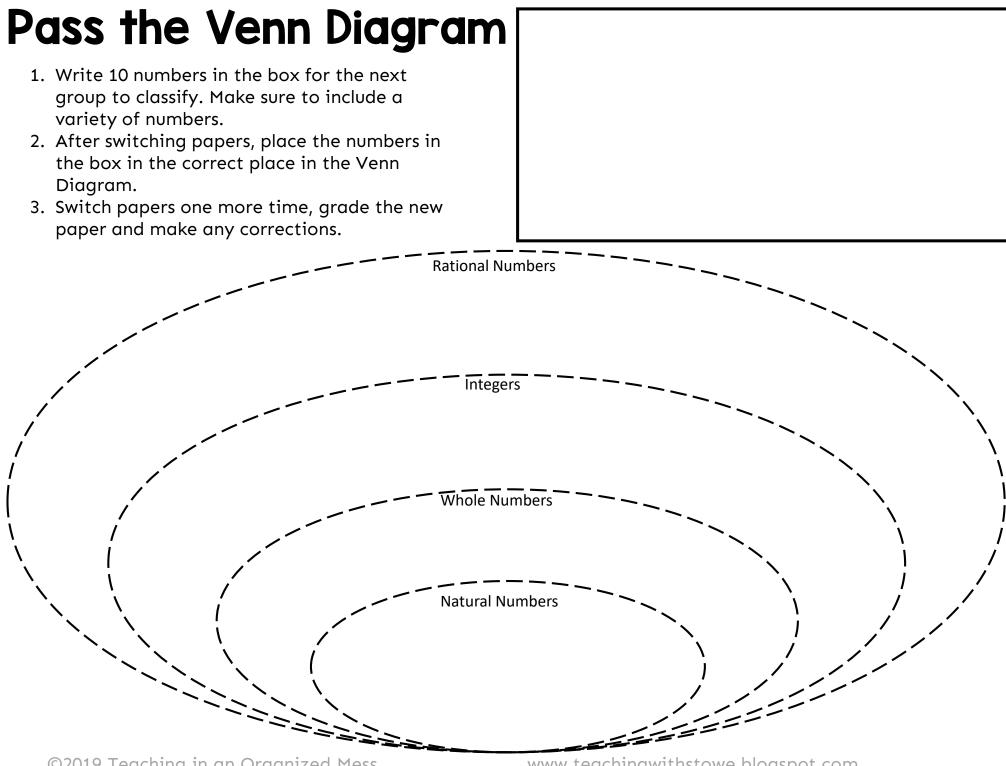
Rational Number Only
Whole Number, Integer, and Rational Number
Integer and Rational Number
Rational Number Only

Classify Numbers 1. Place game piece on Start. Roll the die and move the correct number of places. **Bump It**

Supplies: Game Piece, Colored Counters and a Die

- 2. Find a number that fits the criteria and place a colored counter on it. The other players will check your work. If everyone agrees you are right, you win the space.
- 3. You can place a counter and a free space, or you can bump another player's counter and place yours there. You can "lock" in your spot by putting a two-colored counters on a square and no on can bump it.

Start Bump another player's piece	Rational Number Only	Integer and Rational Number	Rational Number Only	Integer and Rational Number	Whole Number, Integer and Rational Number	Rational Number Only
Rational Number Only	0	-579	50 4	-81	10 2	Whole Number, Integer and Rational Number
Integer and Rational	-2	45	-0.004	0.35	-10	Integer and Rational
Number	5.00	15	60	3	-5.87	Number
Rational	J.VV	3	5	4	-3.07	Rational
Number Only	5 8	17	1.6	-45.7	10.8	Number Only
Whole Number, Integer and Rational Number	-20	- <mark>84</mark> 7	100	- <mark>36</mark> 4	- <mark>56</mark> 8	Whole Number, Integer and Rational Number
Whole Number, Integer and Rational Number	Rational Number Only	Integer and Rational Number	Rational Number Only	Rational Number Only	Whole Number, Integer and Rational Number	Integer and Rational Number



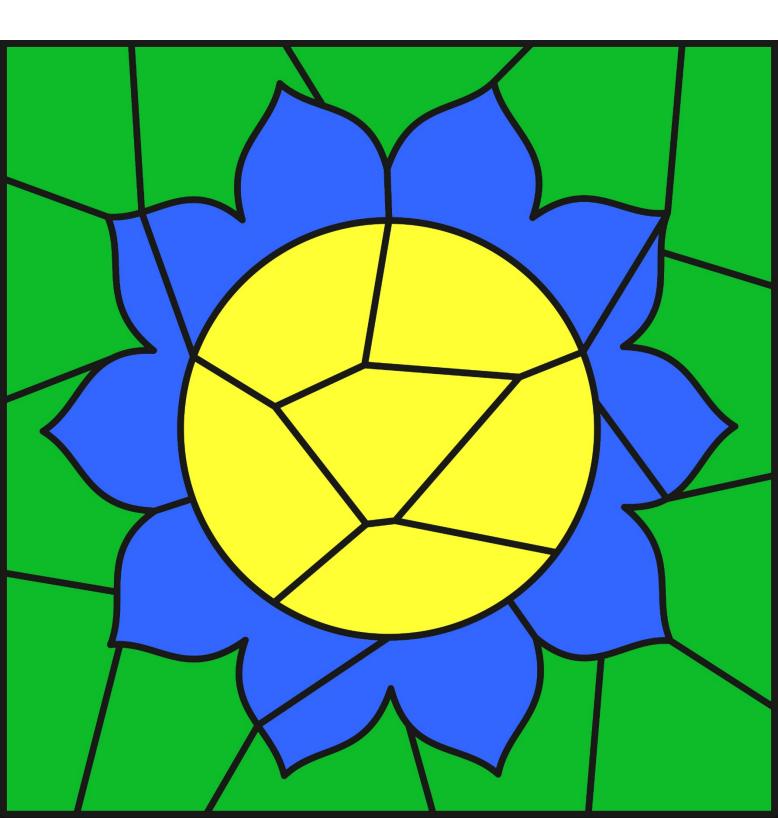
Pass the Venn Diagram

- 1. Write 10 numbers in the box for the next group to classify. Make sure to include a variety of numbers.
- 2. After switching papers, place the numbers in the box in the correct place in the Venn Diagram and label each section.
- 3. Switch papers one more time, grade the new paper and make any corrections.

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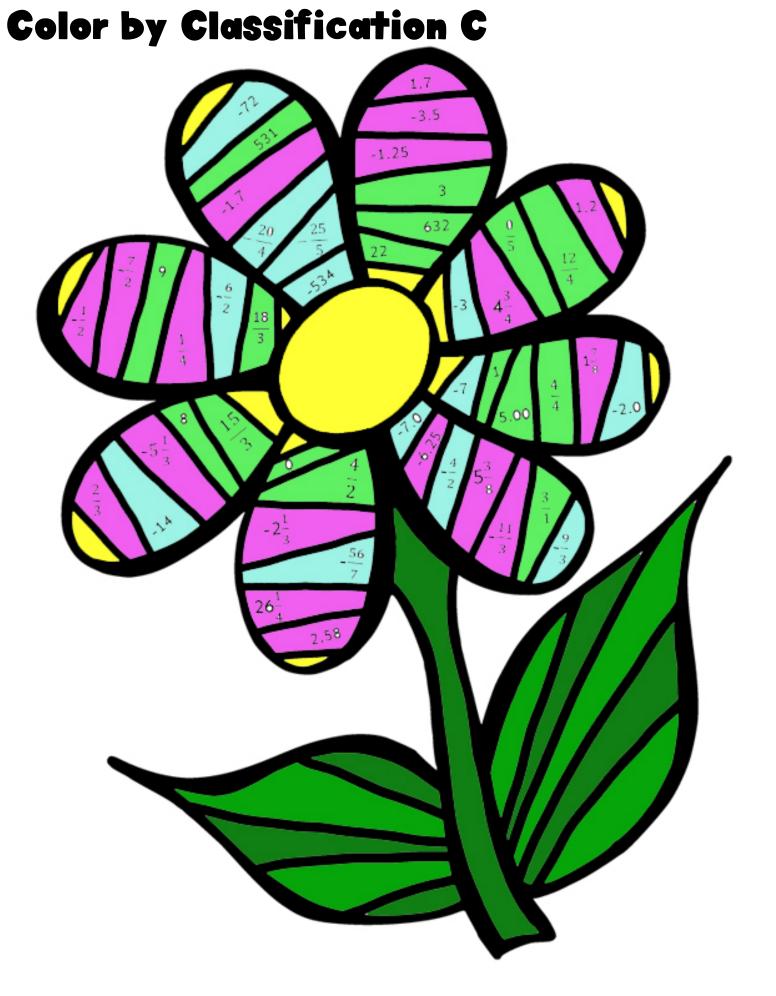
Color by Classification A

Color the numbers according to the following key: Whole Number, Integer, and Rational Number --Yellow Integer and Rational Number– Blue Rational Number only– Green

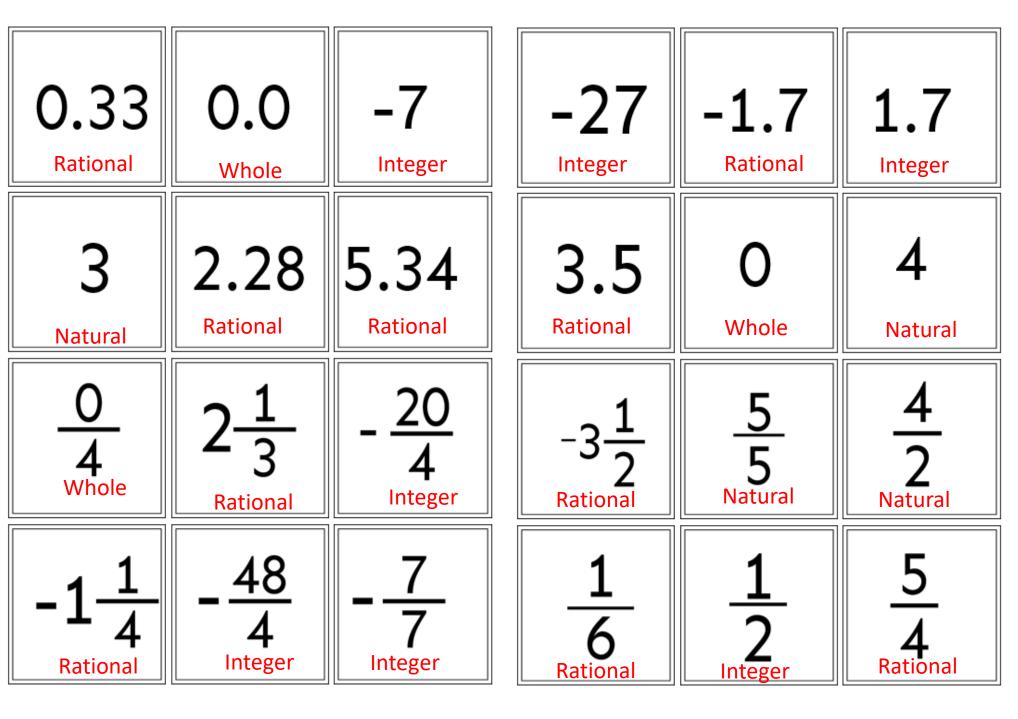


Color by Classification B

Color the numbers according to the following key: Natural Number, Whole Number, Integer, Rational Number- Blue Whole Number, Integer, and Rational Number --Red Integer and Rational Number- Yellow Rational Number only— Green



Always	Sometimes	Never
Rational numbers can be written as a fraction.	Rational numbers are also integers	A proper fraction is a whole number.
Whole numbers are positive numbers.	A fraction can be a whole number. A number can be both	Natural numbers are negative numbers.
Integers are rational numbers.	an integer and a whole <u>number</u> . Improper fractions are whole numbers.	Whole numbers include negative numbers
Fractions are rational numbers.	Negative fractions are integers.	
Whole numbers are integers.	Integers are negative numbers.	Answer Key
	Decimals are rational numbers.	NG



Answer Key Classify Rational Numbers

Which of the following numbers is a rational number but not an integer?	Which statement is not true?
A4 B3.5 C. $-\frac{24}{8}$ D. 25	 A. All whole numbers and integers are rational numbers. B. All rational numbers can be written as a fraction. C. A whole number cannot be written as a fraction. D. All integers are whole numbers but not all whole numbers are integers.
Which set of numbers includes 2 integers that are not whole numbers and 2 rational numbers that are not integers? A. $\frac{10}{5}$, -4, 3.2, $\frac{1}{2}$ B9.34, 2, $\frac{4}{3}$, -8 C. $-\frac{4}{8}$, -4.5, 5, $-\frac{9}{3}$ D. $-\frac{11}{8}$, 4.5, -5, $-\frac{9}{3}$	How does an integer differ from a whole number? Answers may include: All whole numbers are integers, but not all integers are whole numbers. Integers are whole numbers and their opposites.
Place- $\frac{12}{9}$ correctly in the Venn Diagram. Rational Numbers 12 9 Integers Whole Numbers	Write two whole numbers, two integers that are not whole numbers and two rational numbers that are not integers. Answer will vary.

