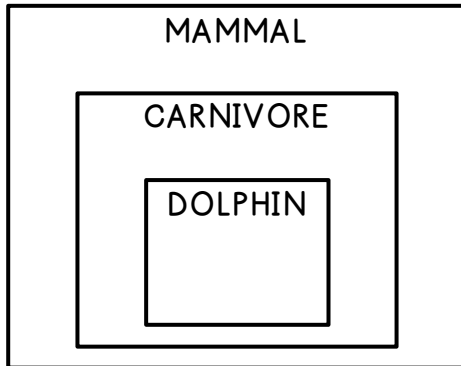
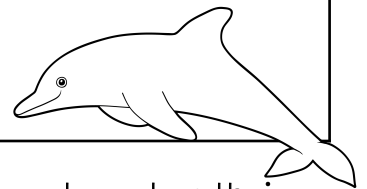


CLASSIFYING RATIONAL NUMBERS

In biology class, students are learning to classify different animals into the diagram below.



- If an animal is a dolphin, are they also a mammal? Why or why not?
- If an animal is a carnivore, are they also a dolphin?
- If you are asked to classify a horse, in which part of the diagram does it belong?

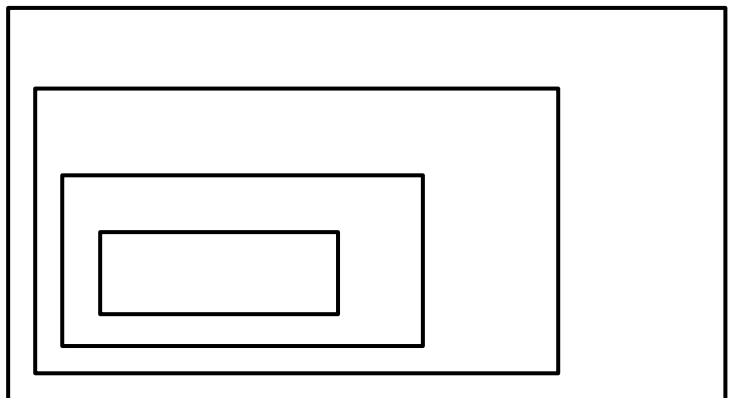


The number system classifies numbers into _____ and _____ based on their type and characteristics.

NATURAL NUMBERS	<ul style="list-style-type: none"> The set of _____ integers Examples: _____
WHOLE NUMBERS	<ul style="list-style-type: none"> The set of all positive counting numbers starting with _____ Examples: _____
INTEGERS	<ul style="list-style-type: none"> The set of whole numbers and their _____ Examples: _____
RATIONAL NUMBERS	<ul style="list-style-type: none"> Numbers that can be written as fractions, terminating decimals, and _____ decimals Examples: _____

1. Place the headings for each type of number in the graphic organizer at the right. Then, write the following values in the box where they belong.

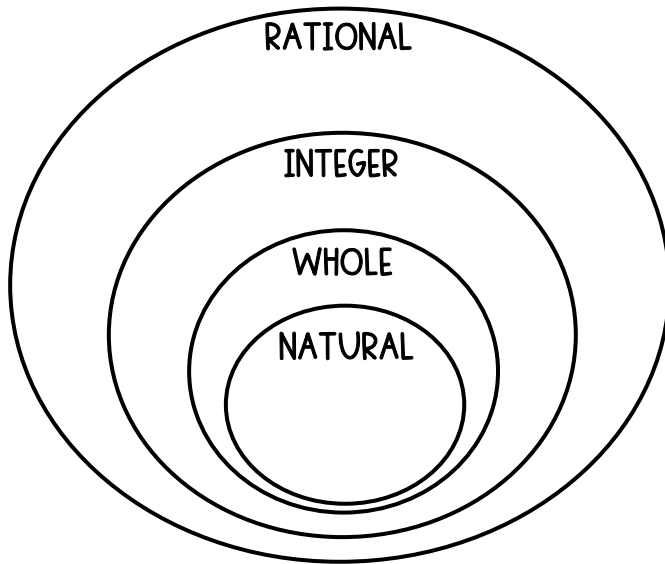
$\frac{16}{4}$	-19	$\frac{3}{5}$
3^2	0	-6.1



Use your understanding of the number system to answer the questions below.

2. Use the graphic organizer below to correctly place each of the following values.

0.125, 308, -6, $-\frac{2}{3}$, 0, -41, -3.7, 22, $\frac{4}{5}$



3. Four different statements about the number system are written below. Determine which statements are true and which are false. Correct any false statements.

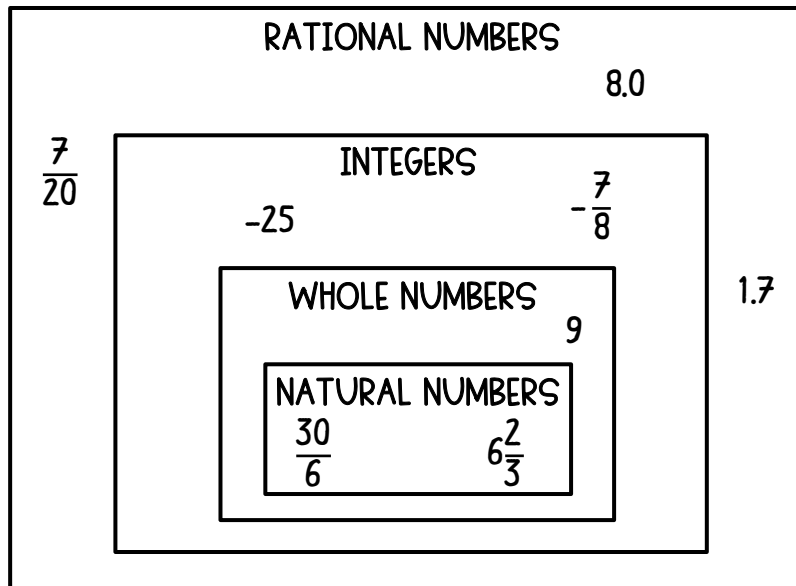
#1: A rational number is always an integer

#2: All natural numbers are integers

#3: All negative numbers are rational numbers

#4: All rational numbers are either fractions or decimals

4. The students in Mrs. Caldwell's class sorted eight different numbers into a diagram representing the number system. Determine if the numbers listed are in the correct location and correctly label any numbers that are misplaced.



-25: _____

$-\frac{7}{8}$: _____

$\frac{7}{20}$: _____

9: _____

1.7: _____

8.0: _____

$\frac{30}{6}$: _____

$6\frac{2}{3}$: _____

Summarize today's lesson: