

# RATIONAL NUMBERS 1

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

**Goal: To define, plot, order, and compare rational numbers. MA.6.NSO.1.1**

**REMEMBER**

A rational number is a number that can be written in the form  $p/q$  where  $p$  and  $q$  are integers and  $q$  is not equal to zero.

1. Rewrite the definition above in your own words. \_\_\_\_\_

2. Give three examples of each of the real numbers listed below. Then, show or explain how each type can be written as a rational number.

Decimals: \_\_\_\_\_

Percents: \_\_\_\_\_

Positive Integers: \_\_\_\_\_

Negative Integers: \_\_\_\_\_

3. Order each of the following sets of rational numbers from least to greatest:

**0.23, -0.5, -0.05, 0.3**      **-1/2, -3/4, 2/5, 1/3**      **1/2, 5%, 1, 0.2, 0, 3/4**

4. Complete each of the following number sentences with  $>$ ,  $<$ , or  $=$ .

$3/4$  \_\_\_\_\_  $0.77$

$15\%$  \_\_\_\_\_  $0.15$

$3$  \_\_\_\_\_  $-9$

$8$  \_\_\_\_\_  $97\%$

$1/2$  \_\_\_\_\_  $48\%$

$0.4$  \_\_\_\_\_  $2/5$

$6$  \_\_\_\_\_  $-16$

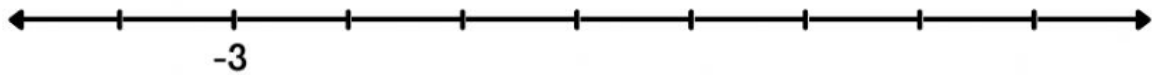
$-1$  \_\_\_\_\_  $0$

$8\%$  \_\_\_\_\_  $0.7$

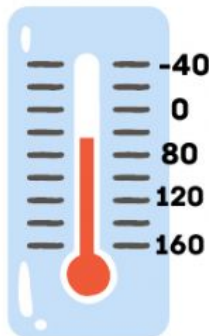
## RATIONAL NUMBERS 2

**Goal: To define, plot, order, and compare rational numbers. MA.6.NSO.1.1**

5. Fill in the missing integers on the number line below. Then, plot the points: 0, -2, 4, -4



6. Tanya is learning how to read a thermometer. She drew the thermometer below to read 85 degrees. Is Tanya's drawing accurate? Why or why not? Make any necessary corrections on the blank thermometer below.



7. Circle each situation that can be represented by both negative and positive integers. If the situation can only be represented by positive integers, draw a rectangle around it.

Dates on a calendar

checkbook withdrawals and deposits

temperature

Yards gained or lost in football

Measurement

8. Kelvin dove off a cliff at a height of 101 feet above sea level. He dove to a depth of 25 feet below sea level. Write an inequality; using  $<$ ,  $>$ , or  $=$ ; comparing these two integers. Then, label the number line below and plot the two points.

Inequality:

