RATIONAL NUMBERS 1

Name: _____ Date: _____ Period: ____

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

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
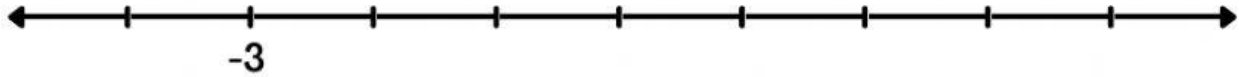
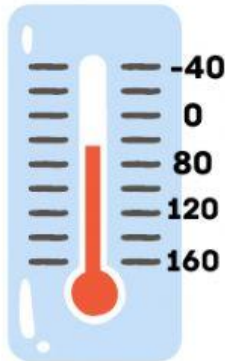   6 _____ -16   -1 _____ 0   8% _____ 0.7

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

-3

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.

-40
0
80
120
160

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: