Unit: Number System
Homework 5

Name _____

Date _____Pd_____

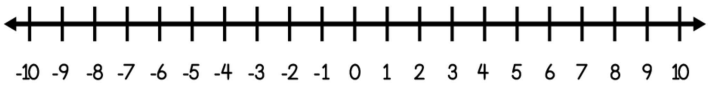
ABSOLUTE VALUE

In questions 1-3, determine the absolute value of each number. In questions 4-6, compare the values using <, >, or =.

1. $\lvert -9.8 \rvert$	2. $\left\lvert 11\frac{2}{3} \right\rvert$	3. $\left\lvert -2\frac{6}{7} \right\rvert$
4. $\lvert 0.95 \rvert$ ◯ $\lvert -1.5 \rvert$	5. $\lvert -10.1 \rvert$ ◯ $\left\lvert 10\frac{3}{20} \right\rvert$	6. $\left\lvert -3\frac{1}{4} \right\rvert$ ◯ $\lvert -4 \rvert$

Use your understanding of absolute value to answer the questions below.

7. Noah is asked to plot the number $\lvert -9 \rvert$ on the number line below. Where should Noah plot the number?



8. Which of the following is NOT true about the number given below?

-6.7

a. The number is negative
b. The opposite of the number is negative
c. The absolute value of the number is positive.
d. The number is 6.7 units away from zero

9. Represent the real-world situations below with an integer.

_____a. The temperature drops to 15 degrees below zero. Write an absolute value to represent the change in temperature.

_____b. Michael has $0 in his account but makes a purchase and overdrafts his account by $75. Write an absolute value to represent the change in Michael's account balance.

_____c. An elevator rises to the ninth floor. Write an absolute value to represent the change in floor levels.

_____d. The parking garage is located 4 floors underneath ground level. Write an absolute value to represent the distance in floors from the ground.