

NAME _____

DATE _____

LESSON 6: VARIABLES AND THE NAMING OF VARIABLES

DEFINITION: The **Origin** is the starting point. On the **Number Line** the **Origin** is 0

DEFINITION: The **Positive Side** of the line is the side to the right of the origin.

DEFINITION: The **Negative Side** of the line is the side to the left of the Origin.

DEFINITION: To move in the **Positive Direction** is to move to the right on the number line.

DEFINITION: To move in the **Negative Direction** is to move to the left on the number line.

▶▶ **PROBLEM SET:** Draw 11 number lines and label the origin on each and 1 to 10 on the positive side and -1 through -10 on the negative side.

Represent the following using a number line:

1. A gain of \$8
2. A loss of \$8
3. 5 degrees below 0
4. 10 degrees above 0
5. A bank deposit of \$2
6. A bank withdrawal of \$3
7. Four steps to the right
8. Five steps to the left

Demonstrate the following using the number line:

9. Start at the origin and move 4 units in the positive direction and then 6 units in the negative direction.
10. Start at the origin and move 3 units in the negative direction and then 5 units in the positive direction.
11. Start at the origin and move 3 units in the positive direction followed by 4 units in the positive direction.