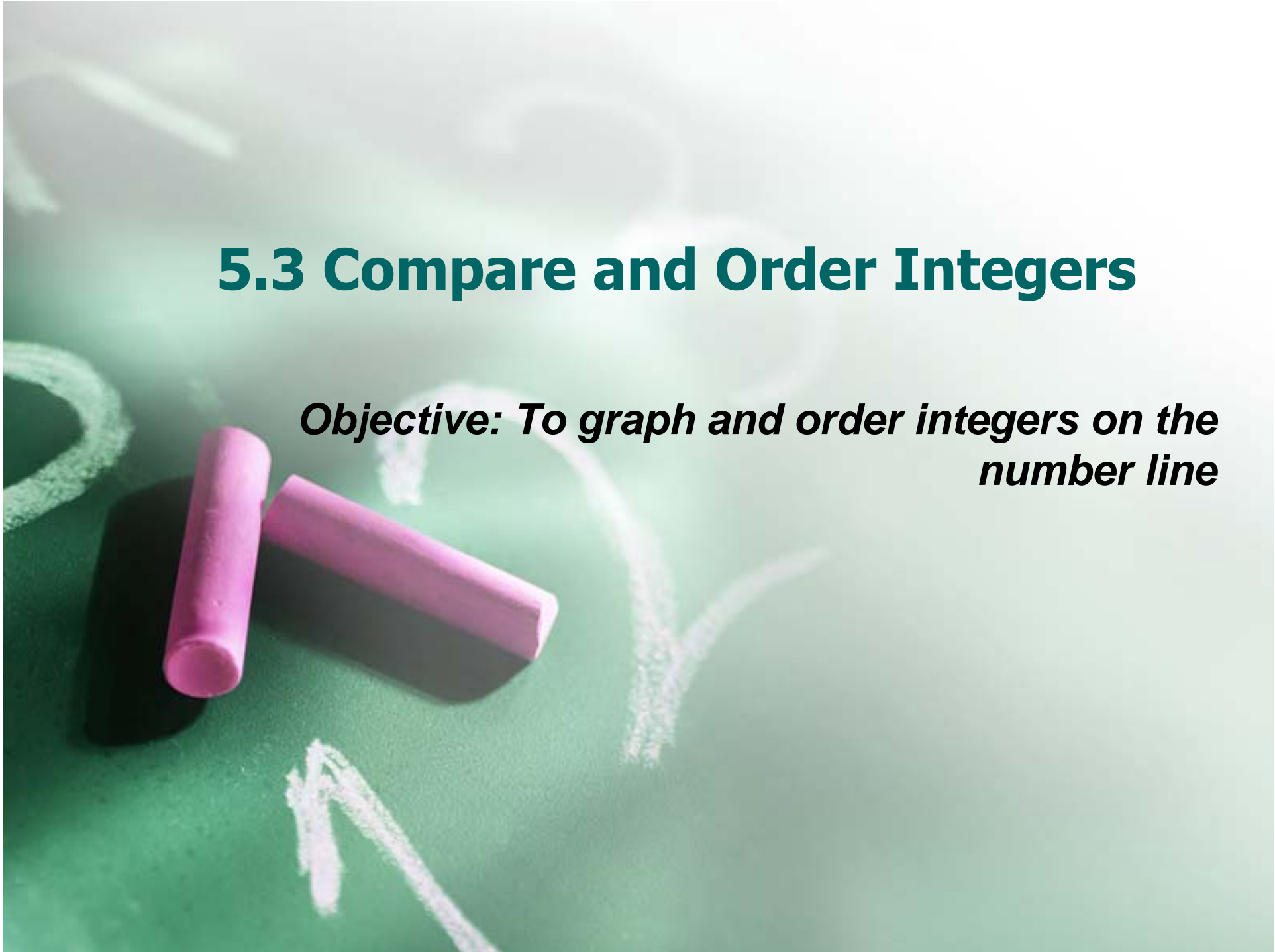


5.3 Compare and Order Integers

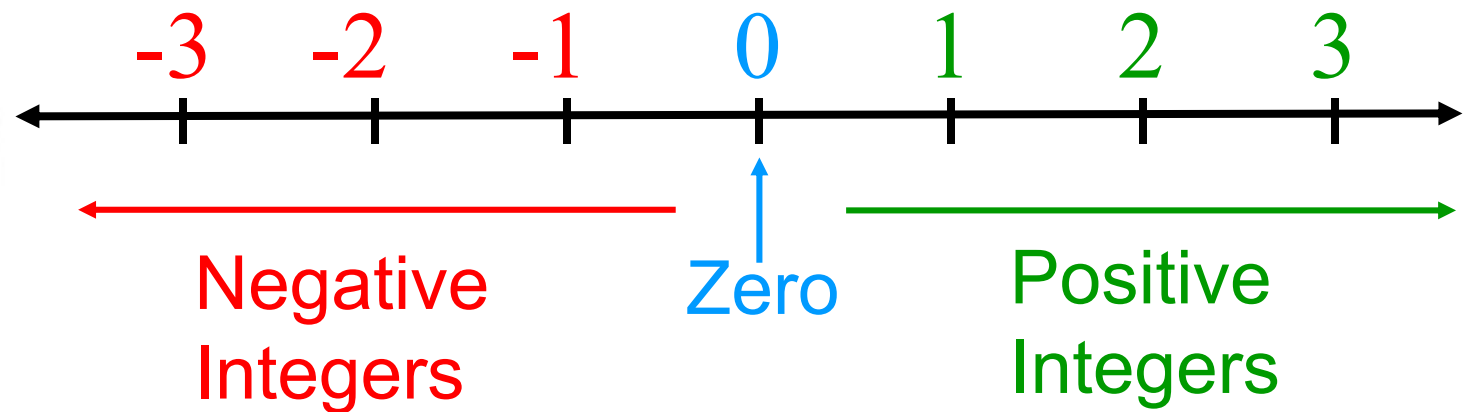
Objective: To graph and order integers on the number line





Integers – The set of **positive** and **negative**
WHOLE numbers and **zero**

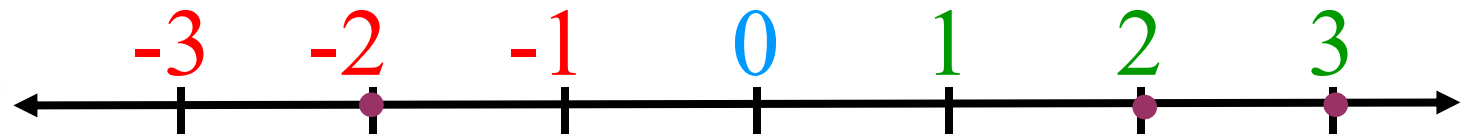
{... -3, -2, -1, 0, 1, 2, 3 ...}



Note: The numbers to the right are **LARGER**
than the numbers on the left!!

To Graph Integers

Example: Graph the integers on a number line
2, -2, 3



Comparing Symbols - Inequalities

Symbol	Name
=	Equal To
<	Less Than
>	Greater Than
≤	Less Than OR Equal To
≥	Greater Than OR Equal To



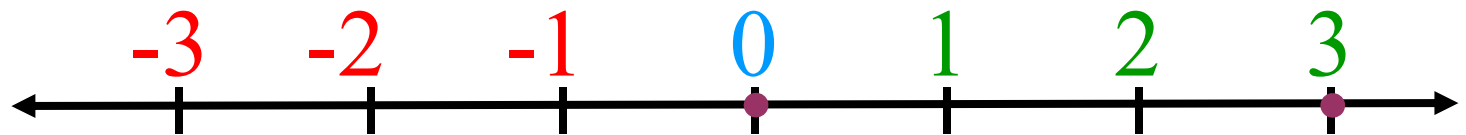
To Compare Integers

Step 1: Plot the integers on the number line

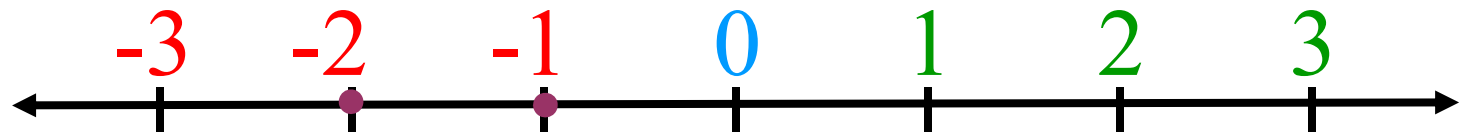
Step 2: The number to the left is smaller

Example: Complete using $<$, $>$, or $=$

$$1) 3 \text{ (} > \text{)} 0$$



$$2) -1 \text{ (} > \text{)} -2$$

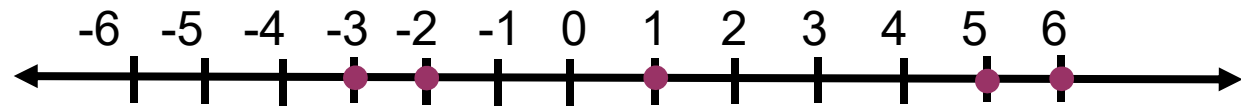


To Order Integers

Step 1: Plot the integers on the number line

Step 2: List the integers in order

Example: Order the integers from least to greatest -3, 6, -2, 1, 5,



Answer: -3, -2, 1, 5, 6



Integers in Real Life

Ascend -To rise. A **positive (+)** number

Descend -To fall or decrease. A **negative (-)** number

Write an integer and describe the meaning of zero.

1) 13 degrees below zero

-13 degrees, The integer 0 represents 0 degrees

2) A submarine descends 120 feet

-120 feet, The integer 0 represents sea level