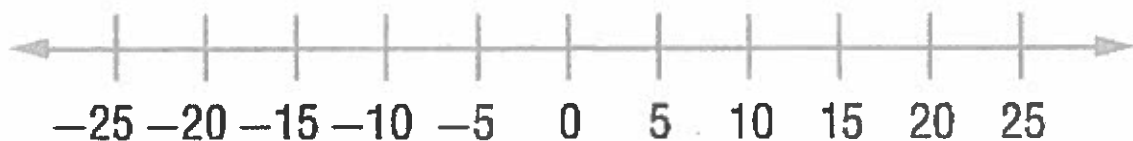## 5.3 Compare and Order Integers (6.NS.7, 6.NS.7a 6.NS.7b, and 6.NS.7d)

> To compare integers, you can compare the signs as well as the magnitude, or size, of the numbers. Greater numbers are graphed farther to the __Right__.

$-25 \quad -20 \quad -15 \quad -10 \quad -5 \quad 0 \quad 5 \quad 10 \quad 15 \quad 20 \quad 25$

Guided Practice
Fill in each blank with <,>, or = to make a true statement.

1.) $17 \; < \; 31$

2.) $-6 \; > \; -10$

3.) $-83 \; < \; -38$

4.) $|3| \; > \; |-2|$
   $\;\; 3 \qquad 2$

5.) $|-3| \; = \; 3$
   $\;\;\; 3$

6.) $|3| \; > \; -3$
   $\;\; 3$

7.) Andrew and his father are scuba diving at –38 feet and Tackle Box Canyon has an elevation of –83 feet. <u>Write an inequality to compare the depths. Explain the meaning of the inequality.</u>

$-38 \geq -83$ The scuba diving was at a higher elevation than the canyon.

8.) The daily low temperature in Kate's hometown last week were:
2°C, -9°C, -18°C, -6°C, 3°C, 0°C, -7°C. Order the temperature from <u>greatest to least</u>.

$3°C, \; 2°C, \; 0°C, \; -6°C, \; -7°C, \; -9°C, \; -18°C$

Partner Talk
Amy is building a house. The basement floor is at –15 feet. The roof of the house is above the ground 25 feet. <u>Write an inequality to compare the heights. Explain the meaning of the inequality.</u>

$-15 \leq 25$ The basement is lower than the roof.

Building on the Essential Question – How can symbols and absolute value help you to order sets of integers?   Positive numbers (+) are farther to the Right.

Rate Yourself – How confident are you about comparing and ordering integers? Shade in the correct section.

YES (?) NO   ← Rate yourself!