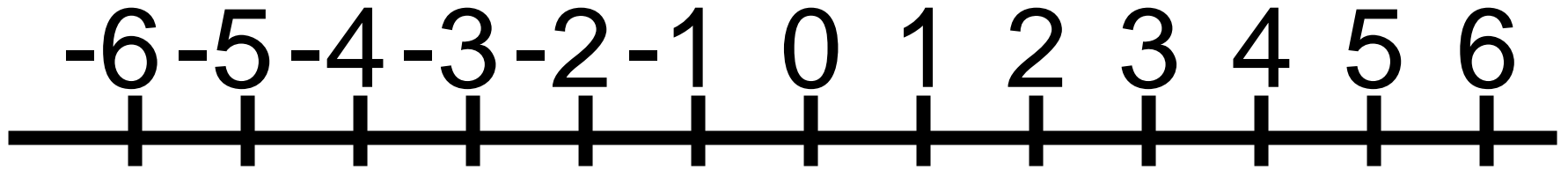


**6.4**

# **Absolute Value**

# Absolute Value



**The absolute value is the distance an integer is from zero.**

$$|-3| =$$

$$|-\frac{2}{3}| =$$

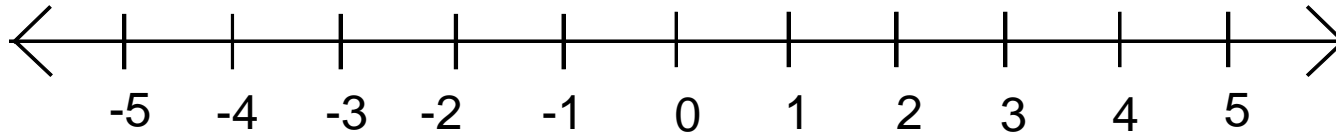
$$|7.5| =$$

$$|-4.3| =$$

# Absolute Value:

This is the \_\_\_\_\_ between the \_\_\_\_\_  
and \_\_\_\_\_, on a \_\_\_\_\_.

The absolute value of a number ***a*** is written as \_\_\_\_\_.

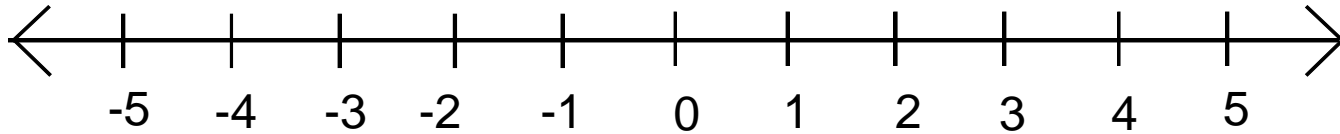


$$|-4| =$$

$$|4| =$$

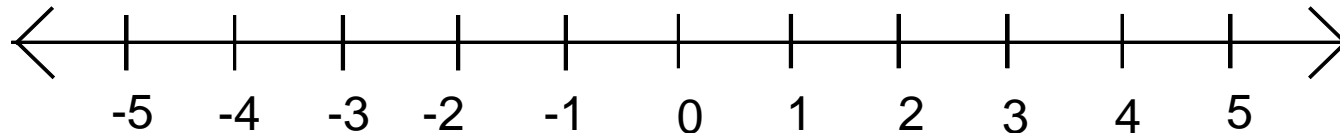
## **Example:**

1) Find the absolute value of 2



$$|2| =$$

2) Find the absolute value of -3.



$$|-3| =$$

## **Practice:**

Find the absolute value.

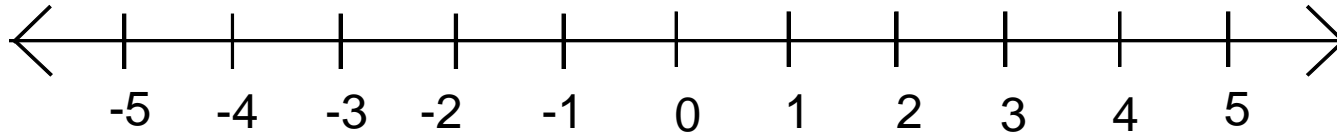
$$3) \quad |7| =$$

$$4) \quad |-1| =$$

$$5) \quad |-5| =$$

$$6) \quad |14| =$$

**Compare the following using  $<$ ,  $>$ , or  $=$ .**



$$1 \underline{\hspace{1cm}} |-4|$$

**Complete the statement using  $<$ ,  $>$ , or  $=$ .**

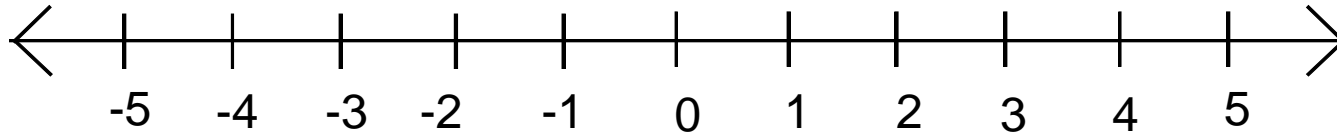
8)  $|2|$  \_\_\_\_  $-1$

9)  $-7$  \_\_\_\_  $|6|$

10)  $|10|$  \_\_\_\_  $11$

11)  $9$  \_\_\_\_  $|-9|$

**Order the values from least to greatest.**



**8,  $|3|$ , -5,  $|-2|$ , -2**



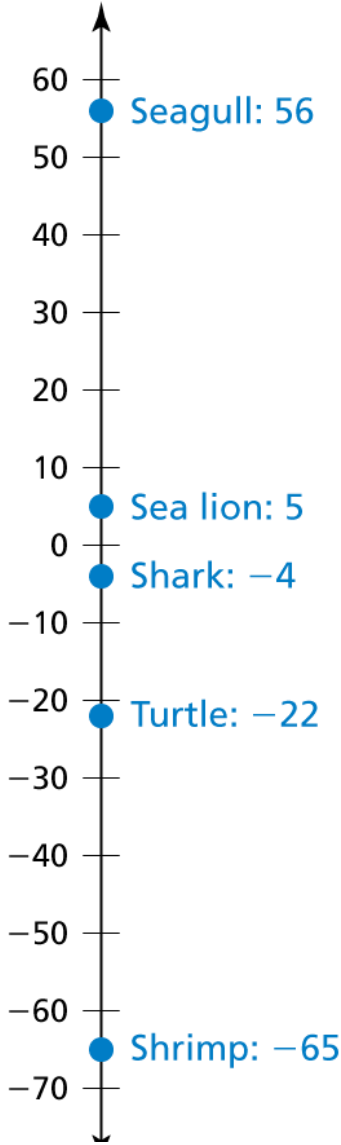
# Real-Life Application

Animal	Elevation (ft)
Shark	-4
Sea lion	5
Seagull	56
Shrimp	-65
Turtle	-22

The table shows the elevations of several animals.

a. Which animal is the deepest? Explain.

b. Is the shark or the sea lion closer to sea level?



# Real-Life Application

Substance	Freezing Point (°C)
Butter	35
Airplane fuel	−53
Honey	−3
Mercury	−39
Candle wax	55

The *freezing point* is the temperature at which a liquid becomes a solid.

- Which substance in the table has the lowest freezing point?
- Is the freezing point of mercury or butter closer to the freezing point of water, 0°C?