

# 6.4 ABSOLUTE VALUE

## Guided Notes

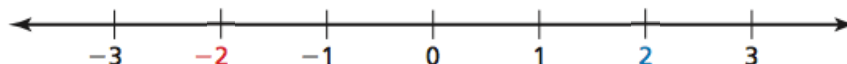
1

### Key Idea

#### Absolute Value

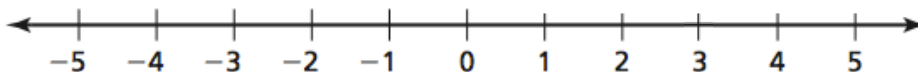
**Words** The **absolute value** of a number is the distance between the number and 0 on a number line. The absolute value of a number is written as

**Numbers**  $| \quad | =$   $| \quad | =$



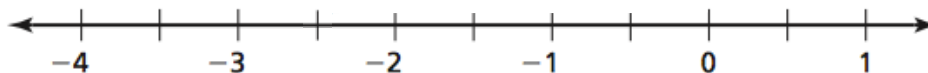
#### EXAMPLE 1 Finding Absolute Value

a. Find the absolute value of 3.



So,

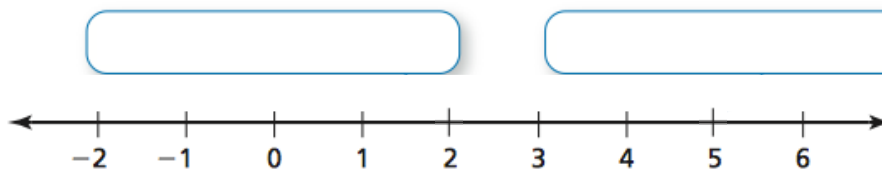
b. Find the absolute value of  $-2\frac{1}{2}$ .



So,

**EXAMPLE 2 Comparing Values****2**

Compare 2 and  $|-5|$ .



So,

**EXAMPLE 3 Real-Life Application**

The table shows the elevations of several animals.

a. Which animal is the deepest? Explain.

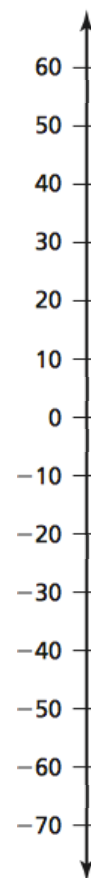
Graph each elevation.

The \_\_\_\_\_ elevation represents the animal that is the \_\_\_\_\_. The integer that is \_\_\_\_\_ on the number line is \_\_\_\_\_.

So, the \_\_\_\_\_ is the \_\_\_\_\_.



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



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

3

Because sea level is at \_\_\_\_\_ use \_\_\_\_\_

**Shark:**

**Sea lion:**

Because \_\_\_\_\_, the \_\_\_\_\_ is \_\_\_\_\_  
to sea level than the \_\_\_\_\_

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

3

Because sea level is at \_\_\_\_\_ use \_\_\_\_\_

**Shark:**

**Sea lion:**

Because \_\_\_\_\_, the \_\_\_\_\_ is \_\_\_\_\_  
to sea level than the \_\_\_\_\_