

# Lesson 2.3: Absolute Value

## Targets

1. I can find absolute values.
2. I can compare absolute values.

## Absolute Value and Number Lines

First, attempt this problem on your own. Then watch the video and copy the notes.

*Plot these values on a number line:  $|-3|$ ,  $|7|$ ,  $|8 - 12|$ ,  $|0|$ ,  $|7 - 2|$*

Your attempt:

Video Notes:

## Adding Numbers with Different Signs

First, attempt this problem on your own. Then watch the video and copy the notes.

*Find  $|x|$  when  $x = 5$ ,  $x = -10$ , and  $x = -12$*

Your attempt:

Video Notes:

## Khan Activity: Finding Absolute Value

Complete this activity on Khan.

## Comparing Absolute Values

First, attempt these problems on your own. Then watch the video and copy the notes.

*Compare each set of absolute values using one of the three symbols:  $<$ ,  $>$ , or  $=$*

Your attempt:

Video Notes:

$$|-9| \text{ \_\_\_\_ } |-7|$$

$$|2| \text{ \_\_\_\_ } |3|$$

## Khan Activity: Comparing Absolute Values

Complete this activity on Khan.

## Finding Initial Temperature from Temperature Changes

First, attempt these problems on your own. Then watch the video and copy the notes.



The Statue of Liberty (pictured above) is a gigantic sculpture located on Liberty Island in New York, United States. The height of the sculpture is 151 feet. The distance from the ground to the torch is 305 feet. What is the absolute value of the difference between 305 and 151?

Your attempt:

Video Notes:

### **Khan Activity: Interpreting Absolute Values**

Complete this activity on Khan.

### **Exit Ticket**

1. Have all your notes filled out above.
2. Complete the following Khan Academy Activities:
  - a. **Finding Absolute Values**
  - b. **Comparing Absolute Values**
  - c. **Interpreting Absolute Values**