## Unit 4 Lesson 14: Absolute Value Meaning

### 1 Math Talk: Closest to Zero (Warm up)

#### Student Task Statement

For each pair of values, decide mentally which one has a value that is closer to 0.

$-\frac{4}{5}$ or $\frac{5}{4}$

$\frac{1}{12}$ or $\frac{1}{14}$

-0.001 or 0.0001

1.3 or $\frac{4}{3}$

### 2 What is Absolute Value?

#### Student Task Statement

1. One of the lowest places in Europe is 23 feet below sea level. We can use “-23 feet” to describe its elevation, and “$|-23|$ feet” to describe its vertical distance from sea level. In the context of elevation, what would each of the following numbers describe?
	1. 37 feet
	2. $|37|$ feet
	3. -6 feet
	4. $|-6|$ feet
2. Water freezes at 0 degrees Celsius. For each pair of temperatures, which temperature is closest to the freezing point of water? Use absolute value to explain your reasoning.
	1. $14^{∘}C$ or $-15^{∘}C$
	2. $-5^{∘}C$ or $-2^{∘}C$
	3. $-12^{∘}C$ or $18^{∘}C$

### 3 Absolute Value Expressions

#### Student Task Statement

Find the value of these expressions.

1. $|10−12|$
2. $|-16+5|$
3. $3|9−4|$
4. $|8−10|−16$
5. $2|-13−2|+18$
6. $9−|19+3|$



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