Additional Examples — Lesson 1-3

1 EXAMPLE Name the set(s) of numbers to which each number belongs.

a. -13 integers, rational numbers

b. 3.28 rational numbers

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2 EXAMPLE Which set of numbers is most reasonable for displaying outdoor temperatures?

integers Rational

3 EXAMPLE Determine whether the statement is true or false. If it is false, give a counterexample.

All negative numbers are integers.

A negative number can be a fraction, such as $-\frac{2}{3}$. This is not an integer. The statement is false. Counter example

4 EXAMPLE Write $-\frac{3}{4}$, $-\frac{7}{12}$, and $-\frac{5}{8}$, in order from least to greatest.

$-\frac{3}{4} = -0.75$

$-\frac{7}{12} = -0.58\overline{3}$

$-\frac{5}{8} = -0.625$

Write each fraction as a decimal. * Divide on Calculator

$-0.75 < -0.625 < -0.58\overline{3}$ Order the decimals from least to greatest.

From least to greatest, the fractions are $-\frac{3}{4}$, $-\frac{5}{8}$, and $-\frac{7}{12}$.

5 EXAMPLE Find each absolute value.

a. $|-2.5|$ -2.5 is 2.5 units from 0 on a number line. $|-2.5| = 2.5$

b. $|7|$ 7 is 7 units from 0 on a number line. $|7| = 7$