



**A3:**

$18.6 \cdot 0.73$

**B3:**

$1.652 \cdot 8.5$

**A4:**

$8.25 \div 0.6$

**B4:**

$19.62 \div 1.2$

**A5:** Bethany and Jessica decided to race each other on their scooters. Bethany finished 4.3 seconds before Jessica and won the race. If Jessica finished with a time of 47.2 seconds, how fast was Bethany's time?

**A6:** Stewart went to the grocery store and bought 2.5 pounds of sour gummy worms that cost \$1.78 per pound and a bottle of soda that cost \$3.34. What is the total Stewart will pay?

**A7:** James has \$7.85 in nickels. Since each nickel is worth \$0.05, how many nickels does James have?

**"I Can Explain How Positive and Negative Numbers Relate to Real-World Examples and the Meaning of 0 in each."**

**A1:** A gain of 56 points in a game. \_\_\_\_\_

**A2:** A fee charged of \$2.50. \_\_\_\_\_

**A3:** A temperature of 32 degrees below zero. \_\_\_\_\_

**A4:** The diver is 30 feet above sea level. \_\_\_\_\_

**B1:** A debt of \$40. \_\_\_\_\_

**B2:** A deposit of \$225. \_\_\_\_\_

**B3:** Alex's body temperature dropped 2 degree. \_\_\_\_\_

**B4:** A loss of 13 pounds. \_\_\_\_\_

**"I Understand the Relationship of a Number and its Opposite and Can Recognize that the Opposite of a Number's Opposite is the Number itself."**

**"I Can Explain how the Absolute Value of a number relates its Distance from 0."**

**A1:** The opposite of  $-4$  \_\_\_\_\_

**A6:** For  $a = 5$  and  $b = -3$

**A2:** The opposite of  $9$  \_\_\_\_\_

$$4a^2 - |b|$$

**A3:** The opposite of  $|-12|$  \_\_\_\_\_

**A4:**  $-(-10)$  \_\_\_\_\_

**A5:**  $-|5|$  \_\_\_\_\_

**B1:** The opposite of  $7$  \_\_\_\_\_

**B6:** For  $a = -4$  and  $b = -2$

**B2:** The opposite of  $-15$  \_\_\_\_\_

$$|b| + 6 \cdot |a|$$

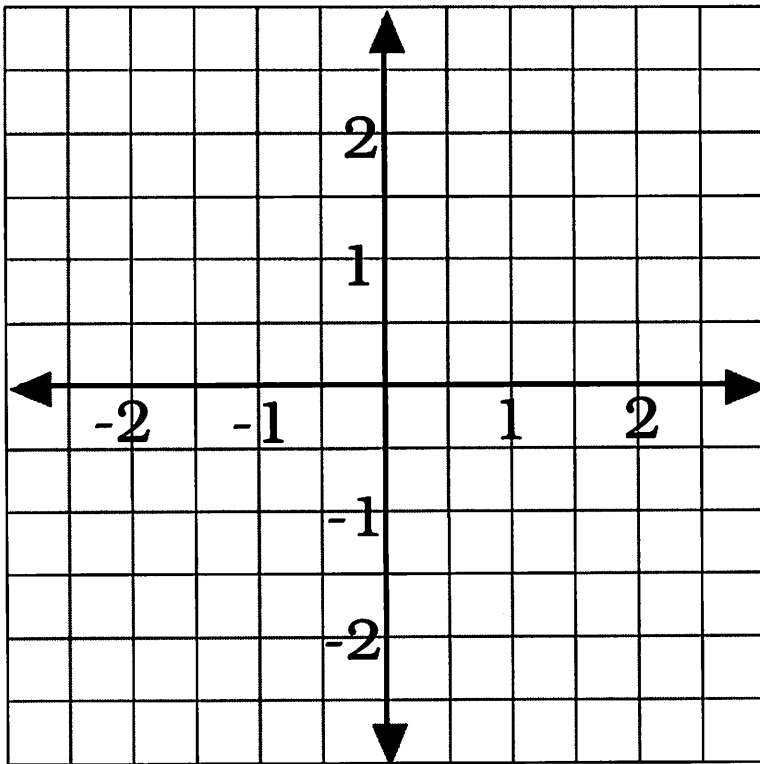
**B3:** The opposite of  $|16|$  \_\_\_\_\_

**B4:**  $|-20|$  \_\_\_\_\_

**B5:**  $-|-8|$  \_\_\_\_\_

**"I Can Plot Rational Coordinates in all 4 Quadrants and Explain how the Signs in any Ordered Pair Change in each Quadrant of the Coordinate Graph."**

**A1:**



Plot and label the points and name the quadrant.

A.  $( 0, -2.5 )$       Quadrant \_\_\_\_\_

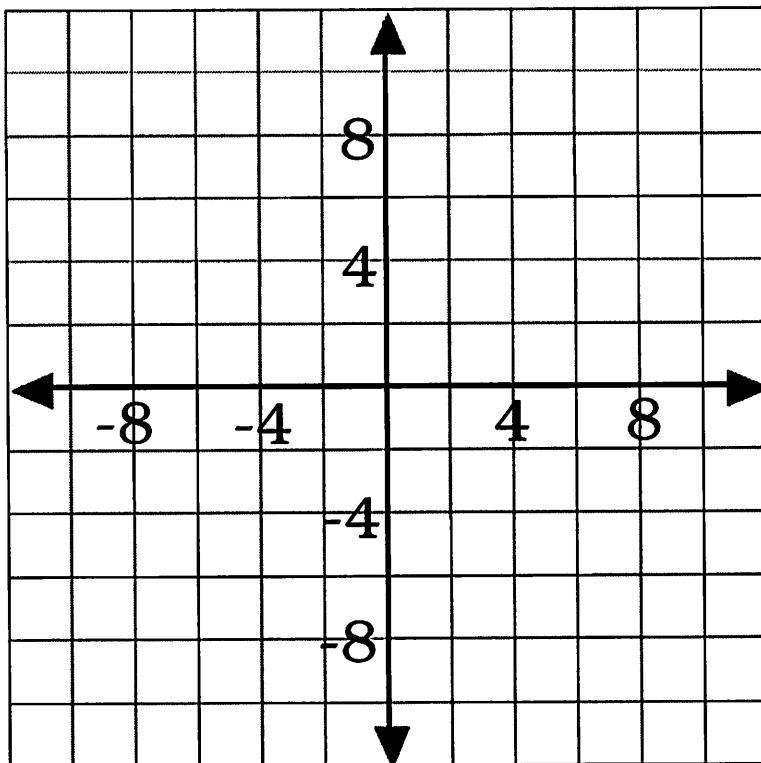
B.  $( 1\frac{3}{4}, -0.5 )$       Quadrant \_\_\_\_\_

C.  $( -2, 2\frac{1}{4} )$       Quadrant \_\_\_\_\_

D.  $( -1\frac{3}{4}, -\frac{1}{2} )$       Quadrant \_\_\_\_\_

E.  $( 1.25, 1.25 )$       Quadrant \_\_\_\_\_

**B1:**



Plot and label the points and name the quadrant.

A.  $( 9, -7 )$       Quadrant \_\_\_\_\_

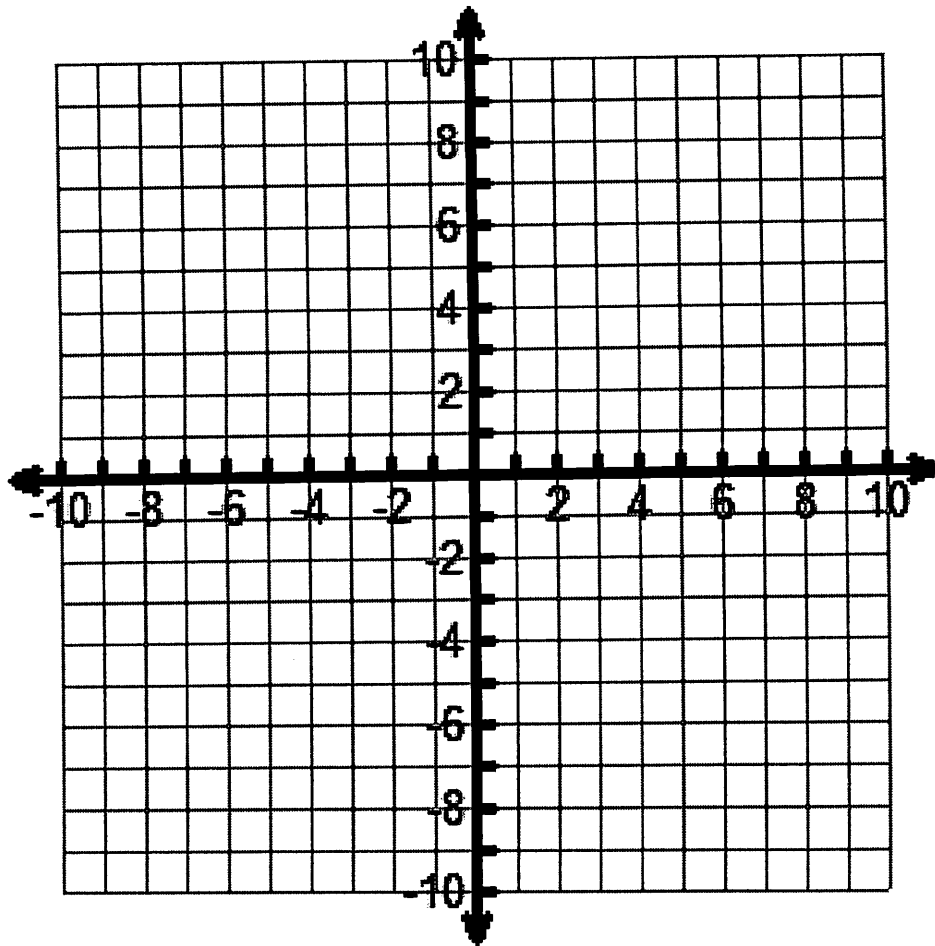
B.  $( -5, 0 )$       Quadrant \_\_\_\_\_

C.  $( -6, -8 )$       Quadrant \_\_\_\_\_

D.  $( -10, 3 )$       Quadrant \_\_\_\_\_

E.  $( 1, 9 )$       Quadrant \_\_\_\_\_

"I Can Find the Vertical or Horizontal Distance Between two points on the Coordinate Plane."



Find the distance between the two points.

**A1:**  $(-4, -3)$  and  $(-4, 8)$     **A2:**  $(9, -5)$  and  $(9, -10)$     **A3:**  $(54, 1)$  and  $(-42, 1)$

**A4:** Find the distance between  $(7, 6)$  and  $(7, -1)$  if each unit represents 12 feet.

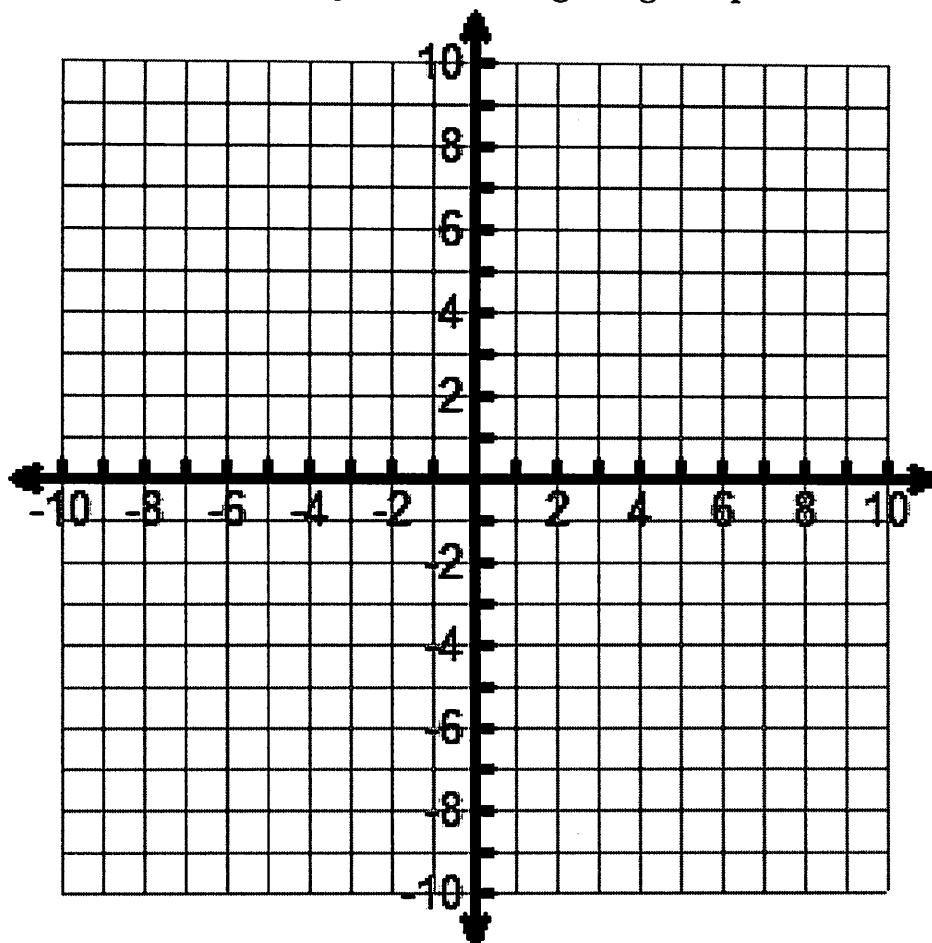
\_\_\_\_\_ feet

**B1:** Plot the points  $(-5, -2)$ ,  $(-5, 3)$ ,  $(2, 3)$ , and  $(2, -2)$  and connect to form a rectangle. If each unit represents 30 centimeters, what is the perimeter of the rectangle?

\_\_\_\_\_ centimeters

**"I Can Explain how Changing the Sign of the Numbers in an Ordered Pair Causes it to Reflect on One or Both Axes."**

Fill out the chart below by graphing and reflecting the given point over the indicated axis.



	<b>A1: (-1, -6)</b>	<b>A2: (7, -4)</b>	<b>B1: (-5, 0)</b>	<b>B2: (8, 3)</b>
Reflect over <i>x</i> -axis				
Reflect over <i>y</i> -axis				
Reflect over <i>x</i> -axis first and then reflect over <i>y</i> -axis				
Reflect over <i>y</i> -axis first and then reflect over <i>x</i> -axis				

**"I Can Convert Fractions to Decimals and Decimals to Fractions."**

Convert the following Fractions to Decimals. (3 decimal places if necessary)

**A1:**  $\frac{9}{20}$

**A2:**  $\frac{3}{7}$

**A3:**  $\frac{13}{200}$

Convert the following Fractions to Decimals. (#decimal places if necessary)

**A4:**  $0.8 =$  \_\_\_\_\_ **A5:**  $0.16 =$  \_\_\_\_\_ **A6:**  $3.25 =$  \_\_\_\_\_

Convert the following Fractions to Decimals. (3 decimal places if necessary)

**B1:**  $\frac{11}{25}$

**B2:**  $\frac{1}{12}$

**B3:**  $\frac{135}{250}$

Convert the following Fractions to Decimals. (#decimal places if necessary)

**B4:**  $0.4 =$  \_\_\_\_\_ **B5:**  $0.08 =$  \_\_\_\_\_ **B6:**  $7.125 =$  \_\_\_\_\_



"I Can Locate a Rational Number on the Number Line."

"I Can Compare two Rational Numbers on a Number Line and in an Inequality."

"I Can Explain the Meaning of Ordering Rational Numbers in a Real-World Situation."

**Integers:**  $>$  or  $<$

A1:  $-4 \square -5$

A2:  $-|27| \square |27|$

A3:  $-10 \square |-14|$

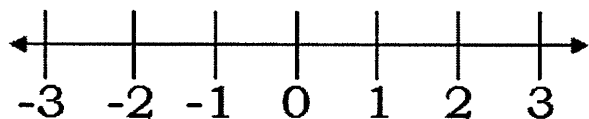
B1:  $-9 \square 15$

B2:  $-|-7| \square |-21|$

B3:  $|-10| \square 0$

A5: Plot the following on the number line.

$-|2|$  ,  $-|-3|$  ,  $|1|$  ,  $|-2|$

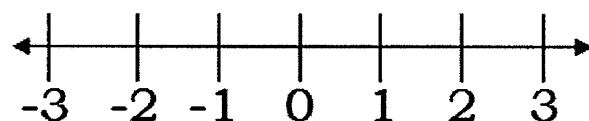


A6: Put the following numbers in order from **greatest to least**.

$-|26|$  ,  $-28$  ,  $|27|$  ,  $-|30|$  ,  $-(-25)$

B5: Plot the following on the number line.

$|-3|$  ,  $|0|$  ,  $-|2|$  ,  $-|-1|$



B6: Put the following numbers in order from **greatest to least**.

$|15|$  ,  $-|-15|$  ,  $|-10|$  ,  $-(-13)$  ,  $11$

**Decimals and Fractions:**  $>$  or  $<$

A1:  $0.347 \square 0.34$

A2:  $\frac{3}{8} \square 0.\bar{3}$

A3:  $\frac{3}{4} \square \frac{7}{9}$

B1:  $35.83 \square 35.803$

B2:  $0.45 \square \frac{4}{9}$

B3:  $\frac{5}{6} \square \frac{8}{10}$

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

**A1:** 5.349 , 5.34 , 5.304 , 5.43 , 5.333

**B1:** 0.86 , 0.8 ,  $0.\overline{8}$  , 0.809 , 0.089

**A2:** 0.35 ,  $\frac{2}{5}$  , 0.52 ,  $\frac{1}{4}$  , 0.403

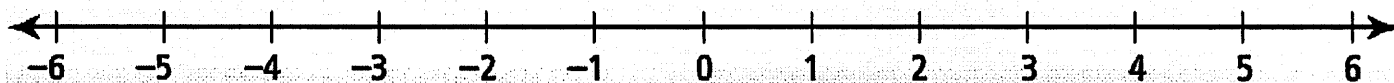
**B2:**  $\frac{5}{6}$  ,  $\frac{3}{4}$  , 0.55 ,  $\frac{5}{9}$  , 0.633

**A3:**  $-2\frac{1}{3}$  , 4.85 ,  $3\frac{1}{2}$  ,  $3.\overline{9}$  ,  $-2\frac{2}{5}$

**B3:** -1.325 ,  $\frac{1}{8}$  ,  $-1\frac{7}{8}$  , 1.5 , -2.375

**A4:** Plot the following rational numbers on the number line.

$$\frac{6}{5}, 5.75, -\left|-\frac{4}{9}\right|, -5\frac{2}{3}, -3.25, \left|-4\frac{7}{9}\right|, -|-0.25|, -\frac{20}{10}$$



# Unit C: Operations and Ordering Rational Numbers

"I Can Add, Subtract, Multiply, and Divide Multi-Digit Decimals and Apply each Operation to Solve Real-World Problems."

**A1:** 28.642      **Y**   **N**                      **B1:** 145.989      **Y**   **N**

**A2:** 4.58            **Y**   **N**                      **B2:** 2.838            **Y**   **N**

**A3:** 13.578        **Y**   **N**                      **B3:** 14.042        **Y**   **N**

**A4:** 13.75          **Y**   **N**                      **B4:** 16.35            **Y**   **N**

**A5:** 42.9 seconds   **Y**   **N**      **A6:** \$7.79      **Y**   **N**      **A7:** 157 nickels   **Y**   **N**

"I Can Explain How Positive and Negative Numbers Relate to Real-World Examples and the Meaning of 0 in each."

**A1:** 56            **A2:** -2.50            **A3:** -32            **A4:** 30            **Y**   **N**

**B1:** -40            **B2:** 225            **B3:** -2            **B4:** -13            **Y**   **N**

"I Understand the Relationship of a Number and its Opposite and Can Recognize that the Opposite of a Number's Opposite is the Number itself."

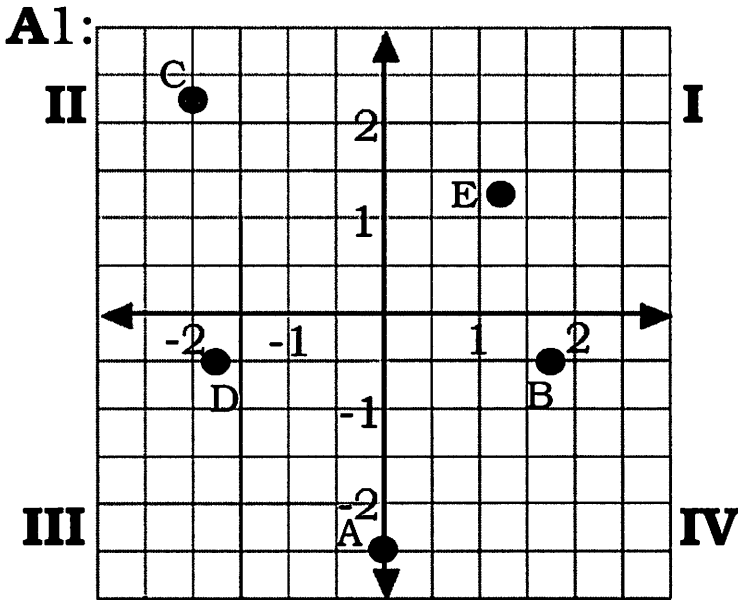
"I Can Explain how the Absolute Value of a number relates its Distance from 0."

**A1:** 4                      **A2:** -9                      **A3:** -12                      **Y**   **N**  
**A4:** 10                      **A5:** -5                      **A6:** 97

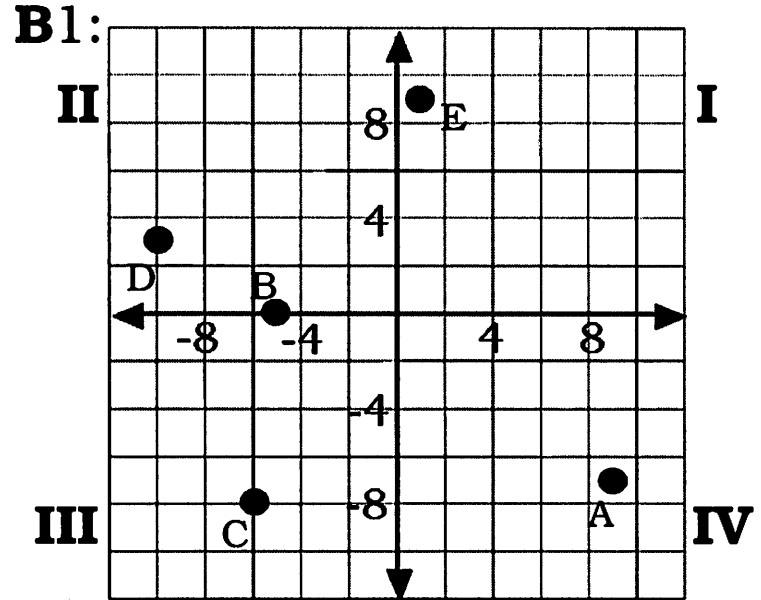
**B1:** -7                      **B2:** 15                      **B3:** -16                      **Y**   **N**

**B4:** 20                      **B5:** -8                      **B6:** 26

"I Can Plot Rational Coordinates in all 4 Quadrants and Explain how the Signs in any Ordered Pair Change in each Quadrant of the Coordinate Graph."



A: No Quadrant B: IV C: II D: III E: I



A: IV B: No Quadrant C: III D: II E: I

"I Can Find the Vertical or Horizontal Distance Between two points on the Coordinate Plane."

**A1:** 11 units **Y N**

**A2:** 5 units **Y N**

**A3:** 96 units **Y N**

**A4:** 84 feet **Y N**

**B1:** 720 centimeters **Y N**

"I Can Explain how Changing the Sign of the Numbers in an Ordered Pair Causes it to Reflect on One or Both Axes."

	<b>A1:</b> (-1, -6)	<b>A2:</b> (7, -4)	<b>B1:</b> (-5, 0)	<b>B2:</b> (8, 3)
Reflect over <i>x</i> -axis	(-1, 6)	(7, 4)	(-5, 0)	(8, -3)
Reflect over <i>y</i> -axis	(1, -6)	(-7, -4)	(5, 0)	(-8, 3)
Reflect over <i>x</i> -axis first and then reflect over <i>y</i> -axis	(1, 6)	(-7, 4)	(5, 0)	(-8, -3)
Reflect over <i>y</i> -axis first and then reflect over <i>x</i> -axis	(1, 6)	(-7, 4)	(5, 0)	(-8, -3)

**Y N Y N Y N Y N**

**"I Can Convert Fractions to Decimals and Decimals to Fractions."**

**A1: 0.45    Y   N            A2: 0.428    Y   N            A3: 0.065    Y   N**

**A4:  $\frac{4}{5}$             Y   N            A5:  $\frac{4}{25}$             Y   N            A6:  $3\frac{1}{4}$             Y   N**

**B1: 0.44            Y   N            B2: 0.083            Y   N            B3: 0.54            Y   N**

**B4:  $\frac{2}{5}$             Y   N            B5:  $\frac{2}{25}$             Y   N            B6:  $7\frac{1}{8}$             Y   N**

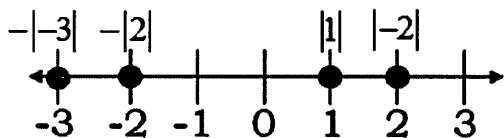
**"I Can Locate a Rational Number on the Number Line."**

**"I Can Compare two Rational Numbers on a Number Line and in an Inequality."**

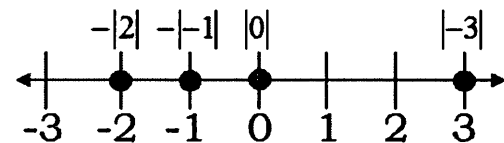
**"I Can Explain the Meaning of Ordering Rational Numbers in a Real-World Situation."**

**A1: >    Y   N            A2: <    Y   N            A3: <    Y   N**

**B1: <    Y   N            B2: <    Y   N            B3: >    Y   N**

**A5:**  **Y   N**

**A6:  $|27|$  ,  $-(-25)$  ,  $-|26|$  ,  $-28$  ,  $-|30|$             Y   N**

**B5:**  **Y   N**

**B6:  $|15|$  ,  $-(-13)$  ,  $11$  ,  $|-10|$  ,  $-|-15|$             Y   N**

**A1: >    Y   N            A2: >    Y   N            A3: <    Y   N**

**B1: >    Y   N            B2: >    Y   N            B3: >    Y   N**

**A1:** 5.304 , 5.333 , 5.34 , 5.349 , 5.43 **Y N**

**B1:** 0.089 , 0.8 , 0.809 , 0.86 ,  $0.\bar{8}$  **Y N**

**A2:**  $\frac{1}{4}$  , 0.35 ,  $\frac{2}{5}$  , 0.403 , 0.52 **Y N**

**B2:** 0.55 ,  $\frac{5}{9}$  , 0.633 ,  $\frac{3}{4}$  ,  $\frac{5}{6}$  **Y N**

**A3:**  $-2\frac{2}{5}$  ,  $-2\frac{1}{3}$  ,  $3\frac{1}{2}$  ,  $3.\bar{9}$  , 4.85 **Y N**

**B3:** -2.375 ,  $-1\frac{7}{8}$  , -1.325 ,  $\frac{1}{8}$  , 1.5 **Y N**

**A4:** **Y N**

