

Poorna Foundation



MATH

End of Course Test

Grade 6

Compare each pair of integers using the symbols $>$, $<$ or $=$.

1) 13 9

2) -2 -2

3) -1 10

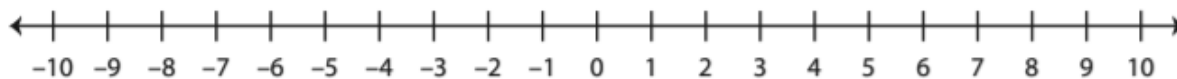
4) 17 -11

5) -14 -14

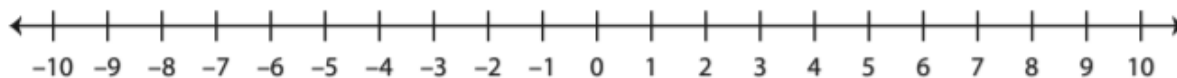
6) -8 8

A) Mark the integers on the number line and order them from the least to the greatest.

1) $-9, 4, -5, 2$

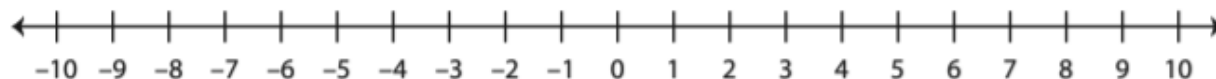


2) $10, 0, -3, -10$

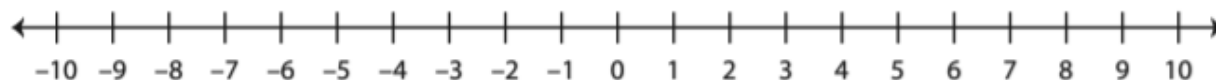


B) Mark the integers on the number line and order them from the greatest to the least.

1) $3, -6, -4, 5$



2) $-2, -1, 9, -7$



Absolute Value

Find the value:

1)

$|5| = \boxed{}$

2)

$|-13| = \boxed{}$

3)

$|2| = \boxed{}$

4)

$|-11| = \boxed{}$

5)

$|7| = \boxed{}$

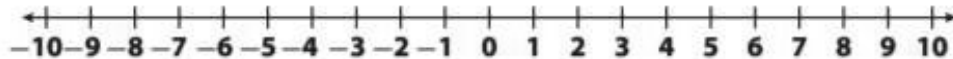
6)

$|-4| = \boxed{}$

1.1 Identifying Integers and Their Opposites

1. The table shows the elevations in feet of several locations around a coastal town. Graph and label the locations on the number line according to their elevations.

| Location | Post Office <i>A</i> | Library <i>B</i> | Town Hall <i>C</i> | Laundromat <i>D</i> | Pet Store <i>E</i> |
|------------------|-------------------------|---------------------|-----------------------|------------------------|-----------------------|
| Elevation (feet) | 8 | -3 | -9 | 3 | 1 |



Write the opposite of each number.

2. -22 _____

3. 0 _____

1.2 Comparing and Ordering Integers

List the numbers in order from least to greatest.

4. $-2, 8, -15, -5, 3, 1$ _____

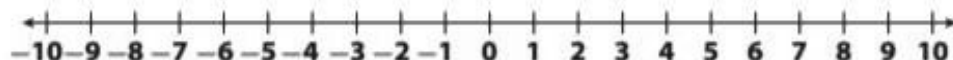
Compare. Write $<$ or $>$.

5. -3 ○ -15

6. 9 ○ -10

1.3 Absolute Value

Graph each number on the number line. Then use your number line to find the absolute value of each number.



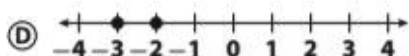
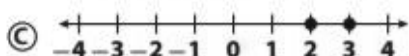
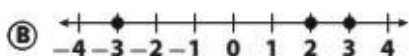
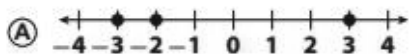
7. 2 _____

8. -8 _____

9. -5 _____

Selected Response

1. Which number line shows 2, 3, and -3 ?



2. What is the opposite of -3 ?

(A) 3 (C) $-\frac{1}{3}$

(B) 0 (D) $\frac{1}{3}$

3. Darrel is currently 20 feet below sea level. Which correctly describes the opposite of Darrel's elevation?

(A) 20 feet below sea level

(B) 20 feet above sea level

(C) 2 feet below sea level

(D) At sea level

4. Which has the same absolute value as -55 ?

(A) 0 (C) 1

(B) -1 (D) 55

5. In Bangor it is -3°F , in Fairbanks it is -12°F , in Fargo it is -8°F , and in Calgary it is -15°F . In which city is it the coldest?

(A) Bangor (C) Fargo

(B) Fairbanks (D) Calgary

6. Which shows the integers in order from least to greatest?

(A) 20, 6, -2 , -13 (C) -13 , -2 , 6, 20

(B) -2 , 6, -13 , 20 (D) 20, -13 , 6, -2

7. How would you use a number line to put integers in order from greatest to least?

(A) Graph the integers, then read them from left to right.

(B) Graph the integers, then read them from right to left.

(C) Graph the absolute values of the integers, then read them from left to right.

(D) Graph the absolute values of the integers, then read them from right to left.

Mini-Task

8. The table shows the change in the amounts of money in several savings accounts over the past month.

| Account | Change |
|---------|----------|
| A | \$125 |
| B | $-\$45$ |
| C | $-\$302$ |
| D | \$108 |

- a. List the dollar amounts in the order in which they would appear on a number line from left to right.

- b. In which savings account was the absolute value of the change the greatest? Describe the change in that account.

- c. In which account was the absolute value of the change the least?
