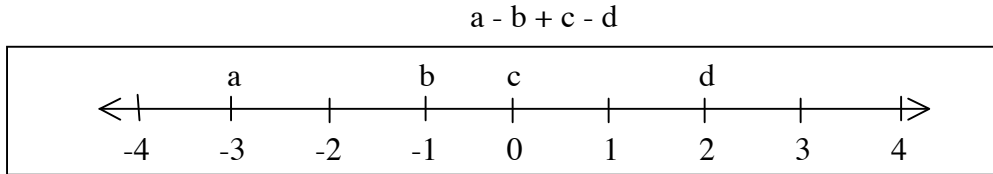


## Adding and Subtracting Integers – Post Assessment

1. Use the number line below to evaluate the following expression:



- a. -6
  - b. -4
  - c. -2
  - d. 0
2. Evaluate  $-x - 4 - (-2)$  for  $x = 8$
- a. -14
  - b. -10
  - c. 2
  - d. 6
3. Tiara woke up at 8:00 a.m. and found that the temperature outside was  $12^{\circ}$  Fahrenheit. During the next two hours, the temperature dropped  $25^{\circ}$ . What was the temperature outside at 10:00 a.m.?
- a.  $-37^{\circ}\text{F}$
  - b.  $-13^{\circ}\text{F}$
  - c.  $13^{\circ}\text{F}$
  - d.  $37^{\circ}\text{F}$
4. Select the values of  $x$  and  $y$  that will make this statement true:

$x$  is negative,  $y$  is negative, and  $x - y$  is positive

- a.  $x = -20, y = -3$
- b.  $x = -5, y = -7$
- c.  $x = -7, y = -4$
- d.  $x = -17, y = 8$

5. Use the table below to find the difference between the low temperatures of Mercury and Venus.

Surface Temperatures				
	Mercury	Venus	Earth	Mars
Low	-280	721	-129	-220
High	800	925	136	68

- a. -1080
- b. -204
- c. -125
- d. -120

BCR – Addition and Subtraction of Integers

6. Marquis read the following problem: Maite had \$43.00. She went to the mall with a friend and lent her \$35.00 so that her friend could buy a video game. The following Monday, her friend paid her back \$22.00 out of what she owed. Marquis's teacher told him to write an equation using subtraction of integers to find out how much money Maite had left.

This is the equation that Marquis wrote:  $43 - 35 - (-22) = x$

Part A: Using Marquis's equation, determine how much money Maite had left.

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Part B: Use what you know about adding and subtracting integers to explain why Marquis's equation is correct. Use words, numbers, or symbols to support your explanation.

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