**Center #1 – Adding Integers**

**Solve.**

**Write an addition problem that represents each situation. Then solve.**

1. From a ledge, a mountain climber descended 12 feet and then another 38 feet. What is the location of the climber in relation to the ledge?
2. Elina’s checking account shows that her current balance is –$247. She then deposits her $325 paycheck into her account. What is Elina’s new balance?

**Center #2 – Subtracting Integers**

**Solve.**

4. Evaluate *a* – *b* if *a* = 5 and *b* = 17.

**Write a subtraction problem that represents the situation. Then solve.**

1. For a class project, Mykia recorded the outside temperature for five nights. Find the *range* of the data:

**Center #3 – Multiplying Integers**

**Solve.**

1. Randall withdraws $30 from his bank account every week for lunch and spending money. What integer represents the change in value of his bank account after 8 weeks?
2. Find the value of *ab* if *a* = and *b* =

**Center #4 – Dividing Integers**

**Solve.**

4. A cave explorer starts at the entrance to a cave and descends 195 meters into the cave in 3 hours. If the explorer travels the same distance each hour, what integer gives the distance traveled of the explorer per hour?

**Find the value of the expression.**



**Center #5 – All Operations**

**Write an expression that represents each situation. Then solve.**

1. Soledad spent $8 on a book. Then she spent $13 on dinner and $4 on ice cream. What is the change in the amount of money she has as an integer?
2. A golfer’s score relative to par on the first hole was –2. Suppose he continues this score for every hole. What would be his score relative to par after eighteen holes?
3. A whale is 8 meters below the ocean’s surface. It descended 16 meters. What is the current position of the whale in relation to the ocean’s surface?
4. There were 83 endangered mammals in the U.S. in a recent year. In the same year, the number of endangered plants in the U.S. was 747. How many times greater was the number of endangered plants than mammals?