

## **Station 1:**

*Answer the following questions about:*

$$\mathbf{m + 13 = 77}$$

A) What is the variable in this problem?

B) Is this an equation or expression? Why? (Hint: Use your notes if you need to! We wrote down both of these words)

C) Write two other ways to say this other than "***m plus thirteen is seventy-seven***"

### **BONUS!**

#### **A Number Puzzle**

Choose any number. Add the number that is 1 more than your original number. Add 11. Divide by 2. Subtract your original number. What is your answer? Do the puzzle again for other numbers. Why do you get the answers that you get? Will this always work?

## **Station 2:**

- A) A number ( $n$ ) plus five is seven. Write and solve an equation to find  $n$ .
- B) Thirteen less than a number ( $n$ ) is eight. Write and solve an equation to find  $n$ .
- C) The product of two and a number ( $n$ ) is negative eighteen. Write and solve an equation to find  $n$ .
- D) The sum of seven and some number ( $n$ ) is 3. Write and solve an equation to find  $n$ .

## **Station 3:**

A) Seattle had a record high of  $102^{\circ}\text{F}$  and a record low that was  $2^{\circ}\text{F}$ . ***Write and solve an equation*** to find the difference between the high and low.

B) The tallest red pine tree in Minnesota is 22 feet higher than the tallest white pine in Minnesota. If the tallest red pine is 126 feet tall. ***Write and solve an equation to find the height of the tallest white pine.***

C) Ms. Epps works the BFS program in the summer. If she works for 6 weeks and makes \$480 total, how much does she make per week? ***Write and solve an equation.***

## **Station 4:**

A)  $6 - (-12)$

E)  $(-3) \cdot (-4)$

B)  $-11 - 3$

F)  $15 - (-11)$

C)  $-2 + (-4)$

G)  $-5 + 7$

D)  $14 + 7$

H)  $-1 + (-1)$

### **ANSWER BANK:**

2

12

26

-2

21

-6

-14

18

## **Station 5:**

*Answer the following questions about:*

$$12 = 5 + r$$

A) What is the value of  $r$ ?

B) Explain how you found " $r$ "

C) What if the problem was " $12 = 5 - r$ " what would  $r$  be then?

### **BONUS!**

1. Two fathers and two sons sat down to eat eggs for breakfast. They ate exactly three eggs, each person had an egg. Explain how this could be.
2. A farmer is trying to cross a river. He is taking with him a rabbit, carrots and a fox, and he has a small raft. He can only bring 1 item a time across the river because his raft can only fit either the rabbit, the carrots or the fox. How does he cross the river. (You can assume that the fox does not eat the rabbit if the man is present, you can also assume that the fox and the rabbit are not trying to escape and run away)

## **Station 6:**

A) If there are twelve pens in a brown paper bag and Ms. Pint tells us there are 25 total pens in front of class, how many pens must another student be holding? ***Write and solve an equation.***

B) Ms. Hall bought a bag of Dum Dums for her students and wants to divide them equally among them. If she has 50 students and each will get 3, how many suckers does she have in total? ***Write and solve an equation.***

C) The difference of some number and 8 is -12. ***Write and solve an equation.***