12 Family Letter

Dear Parent or Guardian:

We use integers and equations to count and compare, keep scores in games, solve problems, and describe distances. Integers and equations often play a role in the decisions we make. For example, you may decide not to buy a pair of jeans because they cost $36 and you only have $30.

In **Chapter 12, Algebra: Integers and Equations**, your child will learn all about integers: ordering them, zero pairs, adding, subtracting, multiplying, and dividing them. Your child will also learn about the coordinate plane and solving addition, subtraction, and multiplication equations. In the study of this chapter, your child will complete a variety of daily classroom assignments and activities and possibly produce a chapter project.

By signing this letter and returning it with your child, you agree to encourage your child by getting involved. Enclosed is an activity you can do with your child that practices how the math we will be learning in Chapter 12 might be tested. You may also wish to log on to **www.msmath1.com** for self-check quizzes and other study help. If you have any questions or comments, feel free to contact me at school.
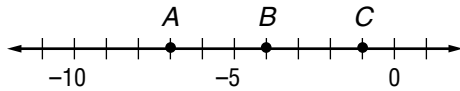
Sincerely,

Signature of Parent or Guardian _____ Date _____

12 Family Activity

State Test Practice

Fold the page along the dashed line. Work each problem on another piece of paper. Then unfold the page to check your work.
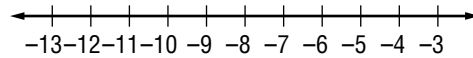
1. Identify points A, B, and C on the number line below.

```
        A     B     C
  ←──┼─┼─┼─┼─●─┼─┼─●─┼─┼─●─┼─┼─→
     −10        −5        0
```

A $-6, -4, -1$
B $-7, -4, -1$
C $-5, -3, -1$
D $-7, -3, -1$

2. Use the number line below to help you find the sum of this problem:

$$-8 + (-4) =$$

```
  ←┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼→
  −13−12−11−10 −9 −8 −7 −6 −5 −4 −3
```

A -4
B -12
C -11
D This problem cannot be solved.

Fold here. -

Solution

1. *Hint: Use the numbers provided to determine the location of the points.*

Counting from -5, point A is two spaces to the left, which is -7. Point B is one space to the right of -5, so it corresponds with -4. Point C is the same for all of the answer options, and is located one space to the left of 0, or -1.

Point A is located at -7.
Point B is located at -4.
Point C is located at -1.

Solution

2. *Hint: When you add a negative number, it is the same as subtracting the number.*

Starting at the point -8, we are adding -4, which is the same as subtracting 4, so the answer should be smaller, or more negative, than -8. In order to subtract, move to the left on the number line 4 spaces. The result is -12.

$$-8 + -4 = -8 - 4 = -12$$

The answer is **B**.

The answer is **B**.