

Student: _____ Group Members: _____

Period: ____

I can define absolute value and recognize the symbol.

Task #1: Birthday

Record first name, students birthday month (number). Record how far student's birthday is from July.

| Student | Birthday Month | How far |
|---------|----------------|---------|
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Task #2: Number Line

Students stand on a different number on the number line. Record how far each student is from the student standing on zero.

| Student | Students number | Distance from 0 |
|---------|-----------------|-----------------|
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| | | |

Task #3: Number Line

Students stand on a different number on the number line; record the numbers the two students are standing on. Find distance between numbers.

Do this 4 times.

| Two numbers | Distance between numbers |
|-------------|--------------------------|
| | |
| | |
| | |
| | |

Using the data you collected answer the following questions in your group.

Student: _____ Group Members: _____

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Everyone records the answers discussed.

1) What did each situation have in common?

2) What did you notice about each of the answers to the tasks?

3) Would the order of the numbers make a difference in the answers?

4) How do you know that the answer has to be positive?

5) How would you let someone else know the answer has to be positive?

How many expressions can you write for each real-world situation, using addition, subtraction and/or absolute value notation.

The temperature on a Saturday in December was 41, on the following Monday the temperature dropped to -7 . What is the difference in the temperatures?

The elevation of Atlanta, Georgia is 1,102 feet above sea level. The elevation of Denver, Colorado is 5,307 feet. What is the difference in these elevations?