Name _____   Date _____

Test Review
You are permitted to use calculators on the test!!!

1. Order the following numbers from least to greatest: 0, 12, -7, and -125.

2. Decide whether the statement is always true, sometimes true, or always false. **Explain your reasoning.**

       a. If a positive integer is subtracted from a negative integer, the difference is a negative integer.

       b. If a positive integer is subtracted from a positive integer, the difference is a positive integer.

3. Tell which one of the following sums is different from the others, and explain your reasoning:

    a) $^-3 + {}^+5$ b) $^+8 + {}^-5$ c) $^+7 + {}^-5$ d) $^+12 + {}^-10$

4. What is the sum of a number and its opposite? Write a number sentence to support your answer.

For Exercises 5 - 7, find two numbers that meet the given conditions.

5. One number is -35. The distance between the two numbers on the number line is 20.

6. The numbers are opposites. The distance between the two numbers on the number line is 18.

7. The first number is the opposite of -17. The second number is less than the first number. The distance between the two numbers on the number line is 9.

For Exercises 8–10, use the following information: At 10:00 A.M. on a winter day in Fairbanks, Alaska, the temperature was ⁻12°F. Find the temperature after each of the following temperature changes.

8. Between 10:00 A.M. and noon, the temperature rose 10°F.

9. Between noon and 3:00 P.M., the temperature rose 15°F.

10. Between 3:00 P.M. and 6:00 P.M., the temperature dropped 13°F.

11. Find the opposite of each point in the graph. [Remember, the opposite of (⁺2. ⁻1) is (⁻2. ⁺1).]

a.
```
            ⁺4 |y       • 
               |         A
            ⁺2 |
      B •       |
  ←————————————|————————→ x
   ⁻4   ⁻2   O | ⁺2  ⁺4
            ⁻2 |
          •    |
          C ⁻4 |
               |
```

b.
```
           ⁺20 |y       • 
               |         D
           ⁺10 |
      E •       |
  ←————————————|————————→ x
  ⁻20  ⁻10   O | ⁺10 ⁺20
          ⁻10 |
          •    |
          F ⁻20|
               |
```