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Thinking about Signed Numbers

1. In two to three sentences, explain the rules for multiplying/dividing signed numbers.

2. Provide two different ways of thinking about and solving the expression -5 – 6.

3. Think about the following two expressions:

$$-5 + 8 =$$
$$8 - 5 =$$

Do these expressions have the same answer? Why or why not? Give an explanation or prove your answer using the number line.

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4. Write four different problems involving signed numbers, and then solve them. You should have one question for each of the four basic operations: addition, subtraction, multiplication, and division.

5. Which of the following expressions have an answer that is equal to -16? Keep in mind that there may be more than one correct answer.
   a) -10 + 6
   b) -6 – 10
   c) -6 + 10
   d) -6 + (-10)

6. Which of the following expressions has an answer that is *not* equal to -5?
   a) -2 – 3
   b) -3 + (-2)
   c) -3 – 2
   d) -2 – (-3)

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