Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rational Numbers Applications**

1. Mariah and Shane both started to work on a math problem and were comparing their work in math class. Are both of their representations correct? Explain, and finish the math problem correctly to arrive at the correct answer.



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1. Evaluate the expression below using the properties of operations.



1. **a.** Given the expression below, what will the sign of the product be? Justify your answer.



1. Give a value for 𝐴 that would result in a positive value for the expression.
2. Give a value for 𝐴 that would result in a negative value for the expression.