Lesson 9: Applying the Properties of Operations to Add and Subtract Rational Numbers

Classwork

Exercise 1

Unscramble the cards, and show the steps in the correct order to arrive at the solution to .

**Examples 1–2**

Represent each of the following expressions as one rational number. Show and explain your steps.



Exercise 2: Team Work!

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Exercise 3

Explain step by step, how to arrive at a single rational number to represent the following expression. Show both a written explanation and the related math work for each step.

Lesson Summary

* Use the properties of operations to add and subtract rational numbers more efficiently. For instance,

.

* The opposite of a sum is the sum of its opposites as shown in the examples that follow:

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Problem Set

Show all steps taken to rewrite each of the following as a single rational number.

3. Explain, step by step, how to arrive at a single rational number to represent the following expression. Show both a written explanation and the related math work for each step.