NAME

Module 3IntegersLesson 3Subtracting Integers





Use integer counters to show 3 - (-4) is *not* the same as -4 - 3.

2 Is subtraction of integers commutative? Explain.



If a positive integer is subtracted from a negative integer, will the difference be positive, negative, or zero? Explain.



When subtracting a negative number, is the difference greater than or less than the original number? Explain.



When subtracting a positive number, is the difference greater than or less than the original number? Explain.



3 When will the difference of two integers be zero? Explain.

Set 1

 $1.3 - (-4) = 7 \neq -4 - 3 = -7$



- 2. No, if the order of the numbers in a subtraction problem are switched, the answers are different. 1-2 = -1 is not the same as 2-1 = 1.
- 3. When you subtract a positive integer, you add its opposite, which is a negative integer. So, you are adding two negative integers. The result is always a negative integer.

Set 2

- 1. The difference is greater than the original number because when you subtract a negative number, you add its opposite, which is positive. If you add a positive number to any number, the sum is always greater than the original number.
- 2. The difference is less than the original number because when you subtract a positive number, you add its opposite, which is negative. Adding a negative number to a number makes the original number smaller. If you subtract a positive number, the difference will always be less than the original number.
- 3. The difference between two integers equals zero when the two integers are equal.

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