

NAME _____

Module 3 **Integers**
Lesson 3 **Subtracting Integers**

Lesson Objectives

- Model subtraction of integers using counters and a number line.
- Subtract integers.

Subtopic 1 Subtracting Integers Using Counters

A pair of counters that has a total of zero is called a zero pair.

Use counters to subtract.

1 $-3 - 1 = -4$

2 $4 - (-2) = 6$

3 $-3 - (-4) = 1$

4 $3 - 5 = -2$

Subtopic 2**Subtracting Integers Using Number Lines**

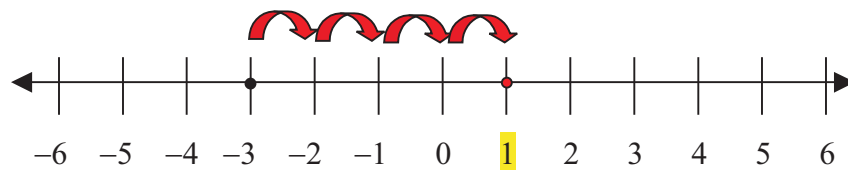
To subtract an integer, add its opposite.

Subtracting Integers with a Number Line

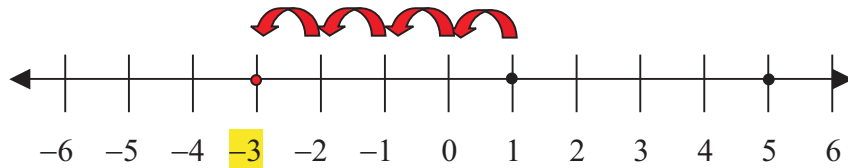
- Start on the minuend.
- Add the opposite of the subtrahend.

Use a number line to subtract.

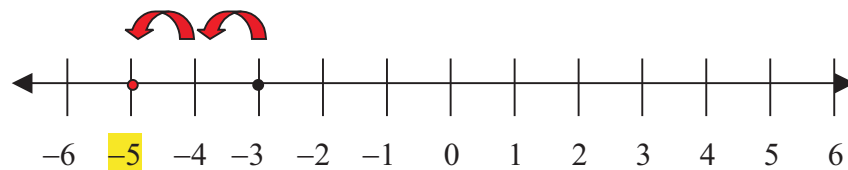
5 $-3 - (-4)$ **1**



6 $1 - 4$ **-3**



7 $-3 - 2$ **-5**



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Subtopic 3 Subtracting Integers Using Rules

Adding Integers with the Same Sign

- Add the absolute values of the integers.
- Sum has the same sign as the addends.

Adding Integers with Different Signs

- Subtract the lesser absolute value from the greater absolute value.
- Sum has the same sign as the integer with the greater absolute value.

Subtracting Integers

- To subtract an integer, add its opposite; then follow the rules for adding integers.

 **8** Subtract.

$$-11 - 21 \quad -32$$

 **9**

$$25 - (-14) \quad 39$$

