11–2 Adding Integers

MAIN IDEA

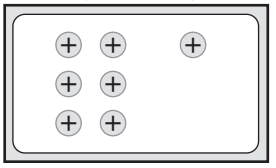
- Add integers.

EXAMPLES Add Integers with Same Sign

1 **Find +6 + (+1).**

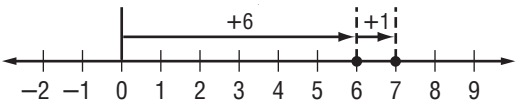
METHOD 1 Use counters.

Add ____ positive counters and ____ positive counter to the mat.



METHOD 2 Use a number line.

Start at 0. Move 6 units to the ____ to show +6. From there, move 1 unit right to show +1.



So, +6 + (+1) = ____.

WRITE IT

Write the following equation in words: –4 + (–3) = –7.

_____

_____

_____

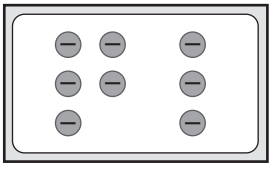
_____

_____

2 **Find –5 + (–3).**

METHOD 1 Use counters.

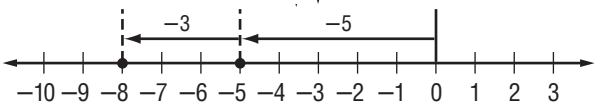
Add 5 negative counters and 3 ____ counters to the mat.



METHOD 2 Use a number line.

Start at 0. Move 5 units to the _____ to show –5.

From there, move 3 units _____ to show –3.



So, $-5 + (-3) =$ _____.

EXAMPLE **Add Integers with Different Signs**

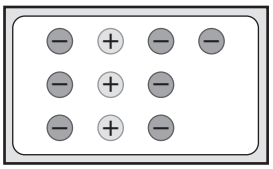
3 **Find –7 + 3.**

METHOD 1 Use counters.

Place _____ negative counters.

and _____ positive counters

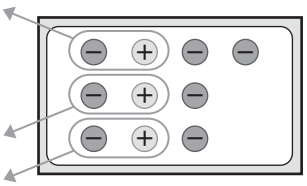
on the mat.



Next, remove as

many _____

as possible.

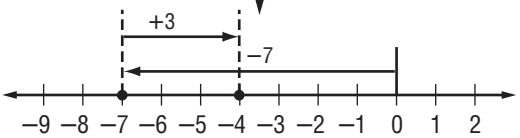


METHOD 2 Use a number line.

Start at 0. Move 7 units to the

_____ to show –7. From there,

move 3 units _____ to show +3.

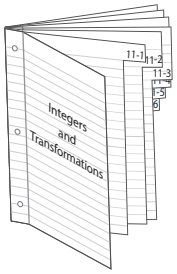


So, $-7 + 3 =$ _____.

FOLDABLES

ORGANIZE IT

Write about what you learn about adding integers with different signs under the Lesson 11-2 tab of your Foldable. Be sure to include examples.



KEY CONCEPT

Adding Integers The sum of two positive integers is always positive.

The sum of two negative integers is always negative.

The sum of a positive integer and a negative integer is sometimes positive, sometimes negative, and sometimes zero.

Check Your Progress **Add. Use counters or a number line if necessary.**

a. $+4 + (+2)$

b. $-2 + (-5)$

c. $-9 + 7$

HOMEWORK ASSIGNMENT

Page(s):

Exercises: