# 11.3 **Subtracting Integers**

#### Essential Question

How are adding integers and subtracting integers related?

# **Today's Learning Goals:**

- Subtracting integers.
- Solve real-life problems.

## **Review**

Add.

1) 
$$-4+(-15)=$$

2) 
$$-20+6=$$

6) 
$$4+(-1)+(-5)=$$

3) 
$$18 + (-5) =$$

4) 
$$-24+19=$$

4) 
$$-24+19=$$
 7)  $-7+2+(-1)=$ 

5) 
$$-18+(-20)=$$

## **Seeing how subtraction is** related to addition...

Addition	Subtraction
3 + -3 =	3 – 3 =
3 + -2 =	3 – 2 =
3 + -1 =	3 – 1 =
3 + 0 =	3 – 0 =
3 + 1 =	3 – -1 =
3 + 2 =	32 =
3 + 3 =	33 =

#### **Rule for Subtracting Integers**

### To subtract integers, add the opposite!

What does this mean?

Your goal is to change a subtraction problem into an addition one.

How?

# Keep, Change, Change!

$$-5 - (-2)$$

# Try to do the following:

Subtract.

Keep, Change, Change!

1) 
$$-4-3=$$

2) 
$$6-(-4)=$$

3) 
$$18-20=$$

## **Practice**

Keep, Change, Change! Subtract.

4) 
$$-9-5=$$
 7)  $-8-9=$ 

7) 
$$-8-9=$$

5) 
$$27 - (-8) = 8$$
)  $14 - 17 =$ 

8) 
$$14-17 =$$

6) 
$$-3-(-1)=$$
 9)  $4-(-19)=$ 

9) 
$$4 - (-19) =$$