Algebra 1A 2.3

Add integers

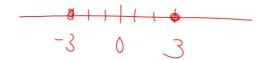
integer whole numbers + opposite

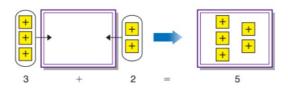
opposite (additive inverse)

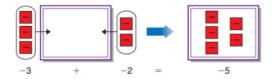
Quiz 2.1-2.2 today

algebra tiles

activ: enter with integers







## **Examples**

Find each sum.

4 + 5 = 9 Both numbers are positive, so the sum is positive.

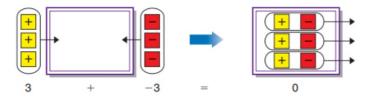
-6 + (-2)

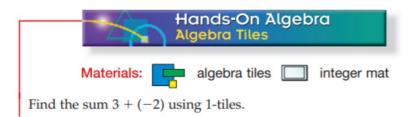
-6 + (-2) = -8 Both numbers are negative, so the sum is negative.

## Your Turn

**a.** 8 + 9

**b.** -2 + (-4) **c.** -5 + (-10) **d.** 11 + 6





Also number line:

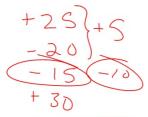
## **Your Turn**

**e.** 
$$-7 + 5$$

**f.** 
$$6 + (-8)$$

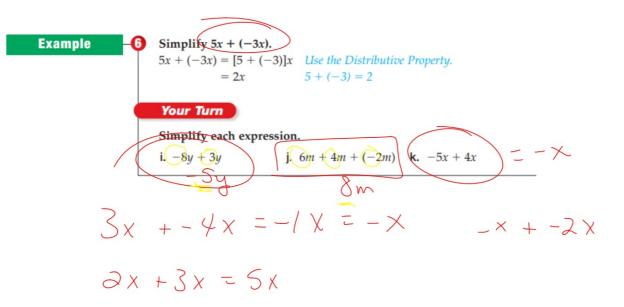
g. 
$$-4 + 9$$

**h.** 
$$11 + (-8)$$





\$ 20 Talisa opened a checking account with a deposit of \$25. During the next two weeks, she wrote checks for \$20 and \$15 and made a deposit of \$30. Find the balance in her account.



## Getting Ready

Tell whether each sum is positive or negative.

**Sample 1:** -4 + (-3)

Sample 2: −9 + 11

Solution: Both integers are

**Solution:** |11| > |-9|, so

negative, so the sum

the sum is positive.

is negative.

**5.** 5 + 12 +

**6.** 12 + (-15) —

7. -3 + (-7) —

8. -3 + 9 +

9. -5 + (-2) — 10. -8 + 12 +

Find each sum. (Examples 1-4)

11. 
$$7 + 9 = 16$$
  
12.  $-2 + (-8) = 70$   
13.  $8 + (-9) = 70$   
14.  $-12 + 15 = 3$   
15.  $-10 + 5 - 5$   
16.  $11 + (-2) = 90$ 

**4.** 
$$-12 + 15$$
 **3 15.**  $-10 + 5$ 

**13.** 
$$8 + (-9) - 7$$

**16.** 
$$11 + (-2)$$
  $\Rightarrow$