You Try It 7

Add. Use Example 5 as a guide.

a)
$$18 + (-45)$$

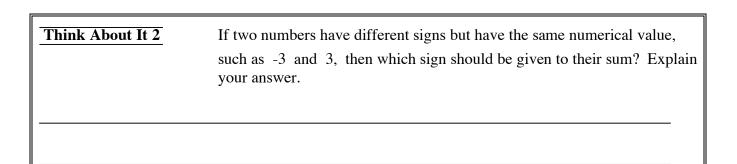
b)
$$-38 + 52$$

c)
$$-19 + 35$$

c)
$$-19 + 35$$
 d) $-86 + 42$

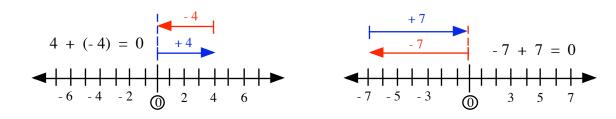
In general, before evaluating the sum of two numbers, it is helpful to first determine whether the sum will be positive or negative. By writing the sum with the larger-valued number first, we get an immediate clue as to whether the result will be positive or negative: the result will have the same sign as the larger-valued number.

Think About It 1	Can the sum of two negative numbers ever be positive? Explain your
	answer or show an example that supports your answer.



THE ADDITIVE INVERSE

A number and its opposite have vectors that are the same length but in opposite directions, so when they are added together, the sum is 0.



The sum of a number and its opposite is 0:

$$a + (-a) = 0$$
 and $-a + a = 0$.