

dding Integers Using Absolute Values

Find each sum.

$$||A|| - 7 + (-4)$$

The signs are the same. Find the sum of the absolute values.

$$-7 + (-4)$$

Think: 7 + 4 = 11.

Use the sign of the

two integers.

The signs are different. Find the difference of the absolute values.

$$-8 + 6$$

Think: 8 - 6 = 2.

-2

Use the sign of the integer with the

greater absolute value.

Subtracting Integers by Adding the Opposite

Find each difference.

$$A = 5 - 9$$

$$5 - 9 = 5 + (-9)$$

Add the opposite of 9.

$$= -4$$

$$\mathbf{B} = -9 - (-2)$$

$$-9 - (-2) = -9 + 2$$

Add the opposite of -2

$$= -7$$

$$|\hat{\mathbf{C}}| -4 - 3$$

$$-4 - 3 = -4 + (-3)$$
$$= -7$$

Add the opposite of 3.

Multiplying and Dividing Two Integers

If the signs are:

Your answer will be:

the same

positive

different

negative

Multiplying Integers

Find each product.

$$-4 \cdot (-2)$$
 Both signs are

negative, so the

product is positive.

$$-3 * 6$$

-3 · 6 The signs are

-18

different, so the product is negative.

Dividing Integers

Find each quotient.

$$B - 1000 \div (-5)$$

The signs are the

$$72 \div (-9)$$
 different so the

$$-100 \div (-5)$$
 same, so the