## Chapter 13

# MULTIPLYING AND DIVIDING POSITIVE AND NEGATIVE NUMBERS

Multiply or divide the numbers, then count the number of negative signs.

If there are an ODD NUMBER of negative numbers,

the answer is NEGATIVE.



THERE ARE
3 NEGATIVE
NUMBERS, SO
THE ANSWER
IS NEGATIVE.

#### If there are an EVEN NUMBER of negative numbers,

#### the answer is POSITIVE.



THERE ARE
2 NEGATIVE NUMBERS, SO
THE ANSWER
ISPOSITIVE.

$$(-) \times (-) = (+)$$

$$(-) \div (-) = (+)$$

$$(-) \times (+) \times (-) = (+)$$

#### EXAMPLES:

$$(-4)(-7)=28$$
 (even number of negative numbers)

$$-11 \times 4 = -44$$
 (odd number of negative numbers)

$$\frac{-84}{-4} = 21$$
 (even number of negative numbers)

$$-2 \times 2 \times -2 = 8$$
 (even number of negative numbers)

## CHECK YOUR KNOWLEDGE

- (-2)(-8)
- 2. 9 -14
- 3 -20 x -18
- 100 x -12
- 5. Joe drops a pebble into the sea. The pebble drops 2 inches every second. How many inches below sea level does it drop after 6 seconds?
- 6. 66 ÷ (-3)
- 📆 -119 ÷ -119
- 8. 27 -3
- 9.  $\frac{-9}{3} \div -1$
- 10. Last week, Sal's business lost a total of \$126. If he lost the same amount of money on each of the 7 days, how much money did he lose each day?

ANSWERS

### CHECK YOUR ANSWERS





- **2.** -126
- 3. 360
- **4.** -1,200
- 5. 12 inches (or -12)
- 6. -22
- **1**. 1
- 8. -9
- 9. 3
- He lost \$18 each day (or -\$18).