

**Practice 2.4 Multiplying Integers**

Name \_\_\_\_\_

**1.** Complete the sentence.

- a. When multiplying two **same sign** numbers, the answer is always \_\_\_\_\_.
- b. When multiplying two **different sign** numbers, the answer is always \_\_\_\_\_.
- c. If you multiply six negative numbers together, the answer will be \_\_\_\_\_.

Multiply **without** using a calculator.

- 2.**  $10(-7) =$                       **3.**  $(-8)(-3) =$                       **4.**  $-4(8) =$
- 5.**  $(-11)(-1) =$                       **6.**  $(-3)(-4)(2) =$                       **7.**  $(-5)(-2)(-1) =$

Simplify **without** using a calculator.

- 8.**  $3^2 =$                       **9.**  $(-4)^2 =$                       **10.**  $-2^4 =$

**Practice 2.5 Dividing Integers**

Name \_\_\_\_\_

Divide **without** using a calculator or state that the expression is undefined.

- 1.**  $-18 \div (-6)$                       **2.**  $\frac{-24}{-3}$                       **3.**  $\frac{45}{-5}$
- 4.**  $\frac{0}{-4}$                       **5.**  $-36 \div 12$                       **6.**  $\frac{9}{0}$
- 7.**  $-15 \div 3$                       **8.**  $\frac{-20}{5}$                       **9.**  $\frac{-42}{-7}$

**10.** Now use a calculator to try dividing some numbers by zero. Describe the results. Now try dividing zero by zero. Do you get the same result, or something different?

## Practice 2.4 Multiplying Integers

Name Key

1. Complete the sentence.

- When multiplying two **same sign** numbers, the answer is always positive.
- When multiplying two **different sign** numbers, the answer is always negative.
- If you multiply six negative numbers together, the answer will be positive.

Multiply **without** using a calculator.

- $10(-7) = -70$
- $(-8)(-3) = 24$
- $-4(8) = -32$
- $(-11)(-1) = 11$
- $(-3)(-4)(2) = 24$
- $(-5)(-2)(-1) = -10$

Simplify **without** using a calculator.

- $3^2 = 3 \cdot 3 = 9$
- $(-4)^2 = (-4)(-4) = 16$
- $-2^4 = -(2)(2)(2)(2) = -16$

## Practice 2.5 Dividing Integers

Name \_\_\_\_\_

Divide **without** using a calculator or state that the expression is undefined.

- $-18 \div (-6) = 3$
- $\frac{-24}{-3} = 8$
- $\frac{45}{-5} = -9$
- $\frac{0}{-4} = 0$
- $-36 \div 12 = -3$
- $\frac{9}{0}$  undefined
- $-15 \div 3 = -5$
- $\frac{-20}{5} = -4$
- $\frac{-42}{-7} = 6$

10. Now use a calculator to try dividing some numbers by zero. Describe the results. Now try dividing zero by zero. Do you get the same result, or something different?

Error, undefined, illegal formula