

# Lesson 5 Reteach

## Divide Integers

The quotient of two integers with different signs is negative.

The quotient of two integers with the same sign is positive.

### Example 1

Find  $30 \div (-5)$ .

$30 \div (-5)$                       The integers have different signs.

$30 \div (-5) = -6$                   The quotient is negative.

### Example 2

Find  $-100 \div (-5)$ .

$-100 \div (-5)$                       The integers have the same sign.

$-100 \div (-5) = 20$                   The quotient is positive.

### Exercises

Divide.

1.  $-12 \div 4$

2.  $-14 \div (-7)$

3.  $\frac{18}{-2}$

4.  $-6 \div (-3)$

5.  $-10 \div 10$

6.  $\frac{-80}{-20}$

7.  $350 \div (-25)$

8.  $-420 \div (-3)$

9.  $\frac{540}{45}$

10.  $\frac{-256}{16}$

**ALGEBRA** Evaluate each expression if  $d = -24$ ,  $e = -4$ , and  $f = 8$ .

11.  $12 \div e$

12.  $40 \div f$

13.  $d \div 6$

14.  $d \div e$

15.  $f \div e$

16.  $e^2 \div f$

17.  $\frac{-d}{e}$

18.  $ef \div 2$

19.  $\frac{f+8}{-4}$

20.  $\frac{d-e}{5}$