NAME _____ DATE _____ PERIOD _____

2-8 Study Guide and Intervention

Dividing Integers

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

Example 1 **Divide $30 \div (-5)$.**

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

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

Example 2 **Divide $-100 \div (-5)$.**

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

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

Exercises

Divide.

1. $-12 \div 4$ **−3**
2. $-14 \div (-7)$ **2**
3. $\frac{18}{-2}$ **−9**
4. $-6 \div (-3)$ **2**
5. $-10 \div 10$ **−1**
6. $\frac{-80}{-20}$ **4**
7. $350 \div (-25)$ **−14**
8. $-420 \div (-3)$ **140**
9. $\frac{540}{45}$ **12**
10. $\frac{-256}{16}$ **−16**

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

11. $12 \div e$ **−3**
12. $40 \div f$ **5**
13. $d \div 6$ **−4**
14. $d \div e$ **6**
15. $f \div e$ **−2**
16. $e^2 \div f$ **2**
17. $\frac{-d}{e}$ **−6**
18. $ef \div 2$ **−16**
19. $\frac{f^2}{e^2}$ **4**
20. $\frac{de}{f}$ **12**

Lesson 2–8