



Name _____ Date _____

Dividing Integers (pages 456–458)

You can model dividing integers with counters or you can use a pattern.

Dividing Integers	<ul style="list-style-type: none"> • When you divide two positive integers, or two negative integers, the quotient is positive. • When you divide a negative integer and a positive integer, the quotient is negative.
--------------------------	--

EXAMPLES

A Find $-15 \div (-3)$.

The signs are the same. The quotient is positive.

$$-15 \div (-3) = 5$$

B Find $6 \div (-2)$.

The signs are different. The quotient is negative.

$$6 \div (-2) = -3$$

Try These Together

1. Find $-12 \div 3$.

HINT: If you divide 12 negative counters into 3 groups, how many negative counters are in each group?

2. Find $-20 \div (-5)$.

HINT: Do the two integers have the same sign or different signs?

PRACTICE

Find each quotient. Use counters or patterns if necessary.

3. $8 \div 2$

4. $6 \div (-3)$

5. $-2 \div 1$

6. $10 \div 5$

7. $14 \div (-7)$

8. $-12 \div (-3)$

9. $24 \div (-6)$

10. $-1 \div (-1)$

11. $-16 \div 4$

12. $-9 \div (-3)$

13. $4 \div 2$

14. $-5 \div (-1)$

15. Find the value of $-32 \div -16$.

16. Divide 42 by -7 .

17. **Stock Market** Mr. Jimenez lost \$320 in 4 days in the stock market. How much money did he lose each day?

18. **Plumbing** The Chens' kitchen faucet has a leak. It drips 3 quarts of water every day. How many quarts of water does it drip in one week?



19. **Standardized Test Practice** What is -81 divided by 9?

A -8

B 8

C -9

D 9

Answers: 1. -4 2. 4 3. 4 4. -2 5. -2 6. 2 7. -2 8. 4 9. -4 10. 1 11. -4 12. 3 13. 2 14. 5 15. 2 16. -6 17. \$80 18. 21 quarts 19. C