



Name _____ Date _____

Multiplying Integers (Pages 78–80)

Multiplying Integers	The product of two integers with the same sign is positive. The product of two integers with different signs is negative.
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EXAMPLES

- A** Find the product of -5 and -8 .

*The signs of the two factors are the same.
The sign of the product is positive.*

$$(-5)(-8) = 40$$

- B** Find the product of -7 and 6 .

*The signs of the two factors are different.
The sign of the product is negative.*

$$(-7)(6) = -42$$

Try These Together

1. Solve $f = 3(-2)$.

HINT: Are the signs of the integers the same or different?

2. Solve $5(8) = g$.

HINT: Are the signs of the integers the same or different?

PRACTICE

Solve each equation.

- | | |
|-------------------|----------------------|
| 3. $-10(-15) = h$ | 4. $12(3) = j$ |
| 5. $k = -3(4)(9)$ | 6. $\ell = -5(9)$ |
| 7. $18(-5) = m$ | 8. $n = -11(-15)(5)$ |
| 9. $9(16) = p$ | 10. $-6(-5) = q$ |
| 11. $16(2) = r$ | 12. $s = (5)(-7)(2)$ |

Evaluate each expression if $a = -3$, $b = 2$, and $c = -5$.

- | | |
|------------|------------|
| 13. ab | 14. $-4ac$ |
| 15. $6abc$ | 16. $-3bc$ |

- 17. Oceanography** A research boat sent instruments down to measure the temperature of the ocean water at different levels. If they lowered the instruments 12 feet every day, where were the instruments at the end of one week? Write your answer as a negative integer.



- 18. Standardized Test Practice** The value of Mr. Herrera's stock changed by $-\$55.00$ a day for 5 days. What was the total change in the value of his stock?

- A** $\$50.00$ **B** $-\$275.00$ **C** $-\$50.00$ **D** $\$275.00$

Answers: 1. -6 2. 40 3. 150 4. 36 5. -108 6. -45 7. -90 8. 825 9. 144 10. 30 11. 32 12. -70 13. -6 14. -60 15. 180 16. 30 17. -84 ft 18. **B**