

LESSON

2-4

Review for Mastery***Multiplying and Dividing Integers***

Look for the patterns in these products and quotients.

$1 \cdot 3 = 3 \quad -1 \cdot 3 = -3 \quad 3 \div 1 = 3 \quad 3 \div (-1) = -3$

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

$-3 \cdot (-3) = 9 \quad 3 \cdot (-3) = -9 \quad -9 \div (-3) = 3 \quad -9 \div 3 = -3$

$-4 \cdot (-3) = 12 \quad 4 \cdot (-3) = -12 \quad -12 \div (-4) = 3 \quad -12 \div 4 = -3$

Look at how to find the signs of the products.

- The product of two integers with the **same sign** is **positive**.

$(+) \cdot (+) = (+) \quad (-) \cdot (-) = (+)$

- The product of two integers with **different signs** is **negative**.

$(+) \cdot (-) = (-) \quad (-) \cdot (+) = (-)$

Look at how to find the signs of the quotients.

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

$(+) \div (+) = (+) \quad (-) \div (-) = (+)$

- The quotient of two integers with **different signs** is **negative**.

$(+) \div (-) = (-) \quad (-) \div (+) = (-)$

Find each product or quotient.

1. $-5 \cdot 4$

2. $2 \cdot (-8)$

3. $-1 \cdot (-1)$

4. $-6 \cdot 3$

5. $7 \cdot (-3)$

6. $-8 \cdot (-4)$

7. $-6 \cdot 5$

8. $-9 \cdot (-9)$

9. $36 \div (-4)$

10. $-27 \div 9$

11. $-24 \div (-6)$

12. $-30 \div 5$

13. $18 \div 6$

14. $32 \div (-8)$

15. $-45 \div 9$

16. $-40 \div (-10)$
