Name _____

Reteaching
10-7

Dividing Integers

Rules for dividing integers:

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

$54 \div (-6)$	$-36 \div (-3)$
$54 \div 6 = 9$	$36 \div 3 = 12$
Because the signs of the two integers in the original problem are different, the sign of the quotient is negative.	Because the signs of the two integers in the original problem are the same, the sign of the quotient is positive.
So, $54 \div (-6) = -9$.	So, $-36 \div (-3) = 12$.

Find each quotient.

1. $-18 \div (-3)$ _____ **2.** $-28 \div 4$ _____ **3.** $-50 \div (-5)$ _____

4. $-24 \div 6$ _____ **5.** $30 \div 6$ _____ **6.** $48 \div (-8)$ _____

Use order of operations to evaluate each expression for $n = -4$.

7. $-40 \div n$ _____ **8.** $n \div 4$ _____ **9.** $76 \div n$ _____

10. $8n \div 2$ _____ **11.** $14 + (n \div 2)$ _____ **12.** $-3n \div (-3)$ _____

13. Nathan and Haley went scuba diving. It took 3 minutes to dive 18 meters. What was the average descent rate of their dive? Find $-18 \div 3$.

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14. **Reasoning** Without computing the answer, how do you know if the quotient $-232 \div 11$ is negative or positive?

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15. **Algebra** Write the next two integers in the pattern $-48, -24, -12,$ ____, ____

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