Name _____ **Period** _____ **Date** _____

6.4 Multiplying Integers

Key Concept

	Examples
Same Signs: The product of two integers with the same sign is **positive**.	4 • 2 = 8 -4 • -2 = 8
Different Signs: The product of two integers with different signs is **negative**.	4 • -2 = -8 -4 • 2 = -8
Zero: The product of an integer and 0 is 0.	4 • 0 = 0 -4 • 0 = 0

Find the product.

1. 4(15)
2. 8(−6)
3. −24(−3)
4. −17(0)
5. −3(2)(5)
6. −2(−5)(4)

Complete the statement using <, >, or =.

7. 17(−3) __?__ 25(−2)
8. −18(−2) __?__ 7(5)

Evaluate the expression.

9. −3(6) + 4
10. −5(−4) + 8

11. The record low temperature in Louisiana is −16°F. The record low temperature in Maine is three times lower than the record low in Louisiana. What is the record low temperature in Maine?

Name _____ **Period** _____ **Date** _____

6.5 Dividing Integers

Key Concept

	Examples
Same Signs: The quotient of two integers with the same sign is **positive**.	10 ÷ 2 = 5 -10 ÷ -2 = 5
Different Signs: The quotient of two integers with different signs is **negative**.	-10 ÷ 2 = -5 10 ÷ -2 = -5
Zero: The quotient of 0 and any other nonzero is 0.	0 ÷ 2 = 0 0 ÷ -2 = 0

Find the quotient.

1. –66 ÷ 11
2. 72 ÷ (–3)
3. –96 ÷ (–12)
4. 80 ÷ (–20)
5. –125 ÷ (–5)
6. 0 ÷ (–23)

Complete the statement using <, >, or =.

7. 15 ÷ (–3) __?__ 15 ÷ 3
8. 42 ÷ (–6) ÷ (–1) __?__ 7

9. The gains and losses in the worth of a share of stock over a 5-day period are \$6, \$2, –\$1, –\$3, and \$1. Find the mean change in worth of the stock over the 5-day period.