

Practice 1-4

Multiplying and Dividing Integers

Simplify each expression.

1. $-4 \cdot 8$

2. $-7 \cdot (-9)$

3. $-5 \cdot (-11)$

4. $2(-3)(-3)$

5. $(-4)(-4)(-4)$

6. $(5)(2)(-20)$

7. $-63 \div 7$

8. $81 \div (-9)$

9. $\frac{96}{-12}$

10. $\frac{-54}{-6}$

11. $-1000 \div (-100)$

12. $\frac{-120}{10}$

13. The value of Jim's telephone calling card decreases 12 cents for every minute he uses it. Yesterday he used the card to make a 6-minute call. What was the change in the value of the card?

14. One day the temperature in Lone Grove, Oklahoma, fell 15 degrees in 5 hours. What was the average temperature change per hour?

Evaluate each expression for $x = -4$ and $y = 6$.

15. $2x + xy$

16. $(y - x) + 7x$

17. $4 + 2y \div x$

18. $\frac{x - y - 11}{-7}$

Enrichment 1-4

Multiplying and Dividing Integers

Critical Thinking

Write *always*, *never*, or *sometimes* to complete each statement. For any statement that you write *sometimes*, give an example to support your answer.

1. The sum of two negative integers is _____ negative.

2. The product of 0 and a positive integer is _____ 0.

3. The sum of a positive integer and a negative integer is _____ positive.

4. The sum of 0 and a negative integer is _____ positive.

5. Zero minus a positive integer is _____ negative.

6. The product of a positive integer and a negative integer is _____ positive.

7. The product of two negative integers is _____ positive.

8. The difference of two negative integers is _____ negative.

9. The quotient of an integer and its opposite is _____ positive.

10. The product of three negative integers is _____ positive.

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