Algebra Drill

You can check your answers in Part VIII: Answer Key to Drills.

- 1. If 5x + 9 = 44, then x =
 - Α. 12
 - 10 В.
 - 7 C.
 - D. 6
- 2. Laura has \$4 more than three times the amount of money Steven has. If x represents the amount of money Steven has, which expression shows how much money Laura has?
 - 3x + 4Α.
 - 3x 4В.
 - C. 4x + 3
 - x + 4(3)D.
- 3. Evaluate $5x^2 - 4y$, if x = 3 and y = 4.



- The Oakdale Preschool accepts 4-yearolds and 5-year-olds and has a total of 63 students. If the school has 7 more 4-year-olds than 5-year-olds, then how many of the children are 4 years old?
 - Α. 14
 - 28 В.
 - C. 35
 - D. 42

- 5. If 3m + 7 < 28, then which of the following expressions gives all the possible values of *m*?
 - Α. m < 9
 - В. m < 7
 - C. m > -5
 - D. m > -7
- What is the sum of 2(x + y) + 3x + 2y? 6.
 - Α. 5x + 3y
 - В. 6x + 3y
 - C. 6x + 4y
 - D. 5x + 4y
- 7. If p = 4, which of the following inequalities contains the number *p*?
 - Α. x < 4
 - В. x > 5
 - C. 2x < 3
 - D. *x* < 5
- 8. If 36 of the 120 workers in a factory work overtime, what percentage of the workers work overtime?
 - Α. 10%
 - В. 20%
 - C. 30%
 - 40% D.

9. Multiply.

$$(4x - 8)(x + 2)$$

- $4x^2 16$ Α.
- -4x + 2В.
- C. $4x^2 + 16x - 16$
- D. 5x - 6
- 10. Tony is 4 years older than Heather, and Heather is 5 years younger than Larry. If the sum of their ages is 69, how old is Tony?
 - Α. 18
 - 20 В.
 - C. 24
 - 25 D.
- If 3x + 2 = -2y and -x + 3y = -14, what 11. is the value of y?
 - Α. -4
 - -2 В.
 - C. 2
 - D. 4

Х	f(x)
-2	
1	3
	19

- 12. If the table above represents the function $f(x) = 2x^2 + 1$, select possible values to complete the table.
 - 5
- 17
- -3
- 19
- -1
- If $\frac{-2x+8}{x^2-3x-10} \times \frac{x^2-x-20}{x^2-16} = x+5$, which of 13.

following is a possible value of x?

- Α. -4
- B. -2
- C. 3
- 5 D.