## **MIXED TAKS PRACTICE**

- 7. George analyzes the results of a survey identifying the number of minutes per day that people spend on the Internet. Which measure of data describes the most frequent amount of time spent on the Internet? *TAKS Obj. 9* 
  - A Mean
  - **B** Median
  - **C** Mode
  - **D** Range
- **8.** The vertices of a right triangle are (0, 0), (0, 8), and (8, 0). What is the length of the hypotenuse? *TAKS Obj.* **7** 
  - **F** 8
  - **G**  $8\sqrt{2}$
  - **H** 64
  - **J** 128
- **9.** What is the *y*-intercept of the line identified by 6x 10y = 25? **TAKS Obj. 3** 
  - **A**  $b = -\frac{5}{2}$ **B**  $b = \frac{3}{5}$
  - **c**  $b = \frac{25}{6}$
  - **D** b = 25
- **10.** Which equation best describes the relationship between *x* and *y* shown in the table? *TAKS Obj.* 1

x	у
1	7
2	12
3	17
5	27

**F** y = 5x + 2

**G** 
$$x = 5y + 2$$

$$\mathbf{H} \quad y = 5x^2 + 2$$

**J**  $x = 5y^2 + 2$ 

**11.** What is the solution of the equation

$$\frac{1}{3}(7x+5) - 2(x-3) = 3x - 5$$
? TAKS Obj. 2  
**A**  $\frac{1}{4}$ 

TEXAS TAKS PRACTICE

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- 4
- **B** 1
- **c**  $\frac{19}{4}$
- **D** No solution
- 12. During one week, Alicia earns \$405 working 45 hours at two jobs. Her retail job pays \$9.50 per hour and her babysitting job pays \$8 per hour. Which system of equations can be used to find *x*, the number of hours Alicia works at her retail job, and *y*, the number of hours she babysits? *TAKS Obj. 4*
  - **F** x y = 458x + 9.5y = 405
  - **G** x y = 4059.5x + 8y = 45
  - **H** x + y = 458x + 9.5y = 405
  - **J** x + y = 459.5x + 8y = 405
- 13. Henry designs a box to contain 36 three-inch cubes. The cubes are stacked 3 high and 2 wide. What are the dimensions of the smallest possible box? *TAKS Obj. 10* 
  - **A** 2 in. by 3 in. by 6 in.
  - **B** 4 in. by 6 in. by 12 in.
  - **C** 6 in. by 9 in. by 18 in.
  - **D** 8 in. by 10 in. by 20 in.
- 14. **GRIDDED ANSWER** At an awards banquet, 1 softball player and 2 soccer players are seated randomly together in a row. What is the probability that the 2 soccer players are *not* seated next to each other? Round your answer to the nearest hundredth. *TAKS Obj. 9*

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.