## **MIXED TAKS PRACTICE**

- 7. What is the *y*-intercept of the line identified by the equation 4x + 3y = 1? *TAKS Obj. 3* 
  - **A**  $-\frac{1}{4}$  **B**  $\frac{1}{3}$ **C** 1
  - **D** 3
- **8.** Which ordered pair is a solution of the inequality  $9x 2y \ge 18$ ? *TAKS Obj. 4* 
  - **F** (−5, −7)
  - **G** (-1, 0)
  - **H** (1, 2)
  - $J \quad \left(3, -\frac{5}{2}\right)$
- **9.** If  $\triangle PQR$  is rotated 90° clockwise about the origin, in which quadrant will the image of point *R* appear? *TAKS Obj.* 7



- A Quadrant I
- B Quadrant II
- C Quadrant III
- **D** Quadrant IV
- **10.** What is the slope of a line that is parallel to the line x + 3y = -8? *TAKS Obj.* 7
  - **F** −3
  - **G**  $-\frac{1}{3}$



**J** 3

11. What is the approximate area of the triangle shown? *TAKS Obj. 6* 



**TEXAS** TAKS PRACTICE

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- **A** 13.9 m<sup>2</sup>
- **B**  $27.7 \text{ m}^2$
- **C** 55.4  $m^2$
- **D** 110.9  $m^2$
- 12. The *gear ratio* of a bicycle is the number of teeth in the chainwheel divided by the number of teeth in the freewheel. The number w of rear-wheel revolutions is equal to the product of the gear ratio and the number p of pedal revolutions. A bicycle in first gear has 24 teeth in the chainwheel and 32 teeth in the freewheel. Which function gives w in terms of p for a bicycle in first gear? *TAKS Obj.* 1

$$\mathbf{F} \quad w = -\frac{4}{3}p$$

**G** 
$$w = \frac{3}{4}p$$

**H** 
$$w = \frac{4}{3}p$$

$$J \quad w = \frac{3}{4}p^2$$

**13. GRIDDED ANSWER** Bill is designing a mosaic tile picture frame for a 10 inch by 10 inch photograph. He wants the frame to provide a uniform border around the photograph, and he has enough mosaic tiles to cover 300 square inches. What is the largest possible frame width, *x*, in inches? *TAKS Obj. 5* 



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