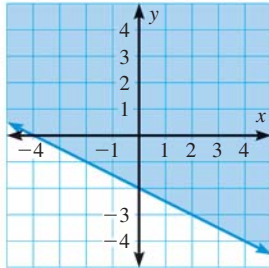## MIXED TAKS PRACTICE

8. An adult male gray whale has a body mass of about 30,000 kilograms. It consumes about 3.5% of its body mass in food per day. About how many kilograms of food does the whale eat per day? *TAKS Obj. 9*

F 990 kg

G 1050 kg

H 1080 kg

J 1500 kg

9. The graph is the solution for which inequality? *TAKS Obj. 1*

A $y < -\frac{1}{2}x - 2$

B $y \leq 2x - 2$
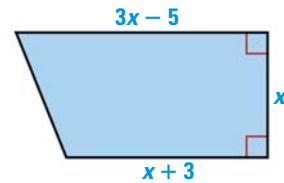
C $y > -2x - 2$

D $y \geq -\frac{1}{2}x - 2$

10. What are the coordinates of the x-intercept of the equation $5x - 3y = 15$? *TAKS Obj. 3*

F $(0, -5)$

G $(-3, 0)$

H $\left(0, \frac{5}{3}\right)$

J $(3, 0)$

11. Which 3-dimensional figure has twice as many vertices as a triangular pyramid? *TAKS Obj. 7*

A A square pyramid

B A triangular prism

C A rectangular prism

D A pentagonal prism

12. Which expression best represents the area of the trapezoid shown below? *TAKS Obj. 5*

F $x^2 - 4x$

G $2x^2 - 1$

H $2x^2 - x$

J $4x^2 - 2x$

13. Which of the following is the solution for this system of linear equations? *TAKS Obj. 4*

$$6x - 10y = 18$$
$$-3x + 5y = -12$$

A $(3, 0)$

B $\left(2, -\frac{3}{5}\right)$

C $(-1, -3)$

D No solution

14. $\overleftrightarrow{WX}$ and $\overleftrightarrow{YZ}$ intersect at point P. Point P is between point W and point X. Point P is also between point Y and point Z. Which statement must be true? *TAKS Obj. 10*

F Points W, X, Y, and Z are collinear.

G $\overleftrightarrow{WX} \perp \overleftrightarrow{YZ}$

H $m\angle ZPW + m\angle WPY = 180°$

J $90° - m\angle ZPX = m\angle YPX$

15. **GRIDDED ANSWER** A volleyball is spiked by a player in a game. The height h (in feet) of the volleyball after t seconds is expressed by the equation $h = -16t^2 - 40t + 10$. After how many seconds does the volleyball hit the ground? Round your answer to the nearest hundredth of a second. *TAKS Obj. 5*

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