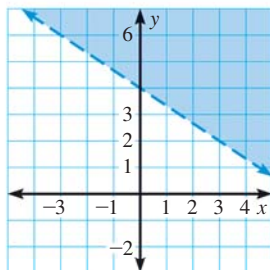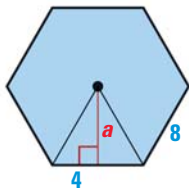## MIXED TAKS PRACTICE

7. Which inequality does the graph represent? **TAKS Obj. 1**

A $y < -\frac{3}{2}x + 4$

B $y < -\frac{2}{3}x + 4$

C $y > -\frac{3}{2}x + 4$

D $y > -\frac{2}{3}x + 4$

8. What is the x-intercept of the line $5x + 3y = -20$? **TAKS Obj. 3**

F $x = -\frac{20}{3}$

G $x = -4$

H $x = 4$

J $x = 20$

9. The area A of a regular polygon is given by the formula $A = \frac{1}{2}aP$ where a is the polygon's apothem and P is its perimeter. What is the approximate area of the regular hexagon shown? **TAKS Obj. 6**

A 42 square units

B 166 square units

C 192 square units

D 322 square units

10. A bag contains 100 marbles. Some marbles are red and the rest are blue. For an experiment, Norman randomly selects one marble from the bag and replaces it. He performs this procedure 20 times and selects 13 blue marbles. What is the most likely number of blue marbles in the bag? **TAKS Obj. 9**

F 26

G 33

H 60

J 65

11. Olivero can choose between driving through the city and driving on the highway when returning home from a sporting event. Driving through the city takes 50 minutes, and driving on the highway takes 35 minutes. Olivero decides to drive on the highway. What percent of the time needed to drive through the city did he save by driving on the highway? **TAKS Obj. 9**

A 10%

B 30%

C 43%

D 70%

12. The graph of $y = -2x^2 + c$ is a parabola with its vertex at the origin. Which of the following is true about c? **TAKS Obj. 5**

F $c < 0$

G $c > 0$

H $c = 0$

J $c = -2$

13. **GRIDDED ANSWER** A total of $4500 is invested in two accounts. One account pays 3% interest annually and the other account pays 5% interest annually. The combined interest earned from the two accounts in the first year is $186. How many dollars were invested in the account paying 5% interest annually? **TAKS Obj. 4**

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