## MIXED TAKS PRACTICE

7. What is the $y$-intercept of the line identified by the equation $4 x+3 y=1$ ? 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 $9 x-2 y \geq 18$ ? TAKS Obj. 4

F $(-5,-7)$
G $(-1,0)$
H $(1,2)$
J $\left(3,-\frac{5}{2}\right)$
9. If $\triangle P Q R$ is rotated $90^{\circ}$ 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 $x+3 y=-8$ ? TAKS Obj. 7

F $\quad-3$
G $-\frac{1}{3}$
H $\frac{1}{3}$
J 3
11. What is the approximate area of the triangle shown? TAKS Obj. 6


A $13.9 \mathrm{~m}^{2}$
B $27.7 \mathrm{~m}^{2}$
C $55.4 \mathrm{~m}^{2}$
D $110.9 \mathrm{~m}^{2}$
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

F $w=-\frac{4}{3} p$
G $w=\frac{3}{4} p$
H $\quad w=\frac{4}{3} p$
J $w=\frac{3}{4} p^{2}$
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.

