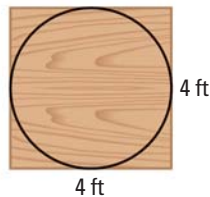


## MIXED TAKS PRACTICE

8. Randy has \$30 to spend at a town fair. The admission price is \$6 and each ride costs \$2. Which inequality can be solved to find how many rides Randy can afford? **TAKS Obj. 4**

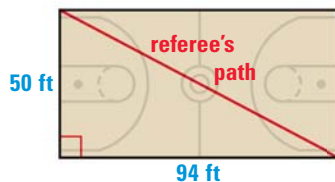
**F**  $30 \geq 6 + 2r$   
**G**  $30 \leq 6 + 2r$   
**H**  $30 \geq 6r + 2$   
**J**  $30 \leq 6r + 2$

9. Gloria makes a circular table top with a diameter of 4 feet from a square piece of wood that measures 4 feet on each side, as shown. Which of the following is closest to the area of wood left over after the table top is cut out? **TAKS Obj. 8**



**A**  $3 \text{ ft}^2$   
**B**  $6 \text{ ft}^2$   
**C**  $12 \text{ ft}^2$   
**D**  $13 \text{ ft}^2$

10. A referee walked diagonally across the basketball court shown. Which expression can be used to determine how far the referee walked? **TAKS Obj. 8**



**F**  $94 + 50$   
**G**  $\sqrt{94} + \sqrt{50}$   
**H**  $\frac{94 \times 50}{2}$   
**J**  $\sqrt{(94)^2 + (50)^2}$

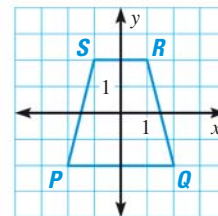
11. Which expression is equivalent to  $\frac{3}{4}(4x - 12) + 2(3x - 7)$ ? **TAKS Obj. 2**

**A**  $23x + 5$   
**B**  $6x - 15$   
**C**  $7x - 19$   
**D**  $9x - 23$

12. At the beginning of the semester, Joe has \$375 in an account for the school lunch program. He uses \$4 each school day to buy his lunch during the semester. Which equation best describes  $b$ , the balance in Joe's lunch account after  $d$  days of school? **TAKS Obj. 1**

**F**  $b = 375 - 4d$   
**G**  $b = 375 + 4d$   
**H**  $b = 375d - 4d$   
**J**  $b = 375d + 4d$

13. If quadrilateral  $PQRS$  is rotated  $90^\circ$  clockwise around the origin, in which quadrant will the image of point  $Q$  appear? **TAKS Obj. 7**



**A** Quadrant I  
**B** Quadrant II  
**C** Quadrant III  
**D** Quadrant IV

14. **GRIDDED ANSWER** A baseball pitcher's earned run average (ERA) is given by the formula  $\text{ERA} = 9 \cdot \text{earned runs} \div \text{innings pitched}$ . During one season, a pitcher pitched 212 innings and had an ERA of 2.25. How many earned runs did the pitcher give up? **TAKS Obj. 2**

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