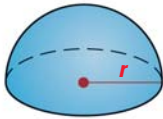## MIXED TAKS PRACTICE

7. A rectangular porch has a width of 12 feet and a length of 24 feet. The porch is being covered with square stone tiles with an edge length of 3 feet. If the tiles are not cut, how many tiles are needed to cover the porch? *TAKS Obj. 7*

A 24

B 32

C 96

D 216

8. Which formula can be used to determine the volume of the hemisphere? *TAKS Obj. 8*

F $V = \dfrac{\pi r^2}{2}$

G $V = 2\pi r^2$

H $V = \dfrac{r^3}{2}$

J $V = \dfrac{2\pi r^3}{3}$

9. Which point on the graph satisfies the conditions $x < 3.3$ and $y > 1.5$? *TAKS Obj. 6*
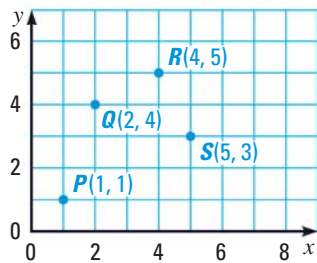
A Point P

B Point Q

C Point R

D Point S

10. A rectangular swimming pool has a length of 10 feet and a width of 8 feet. The water in the pool has a depth of 6 feet. If you add 40 cubic feet of water to the pool, how much will the depth of the water increase? *TAKS Obj. 7*

F 2 in.

G 6 in.

H 1 ft

J 2 ft

11. The domain of the function $y = 3x + 6$ is 0, 1, 2, and 3. What is the range of the function? *TAKS Obj. 2*

A 6, 9, 12, and 15

B 0, 3, 6, and 9

C 2, 3, 4, and 5

D 2, 5, 8, and 11

12. A runner's best time for running 4 laps on her school track is 332 seconds. One day she runs 4 laps and breaks her record. Which inequality represents the average number of seconds per lap she could have run that day? *TAKS Obj. 1*

F $\dfrac{n}{4} > 332$

G $\dfrac{4}{n} > 332$

H $n > 83$

J $n < 83$

13. GRIDDED ANSWER A person invests $1200 in an account earning 3% simple annual interest. Find the amount, in dollars, in the account after 2 years. *TAKS Obj. 9*

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