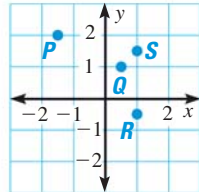


MIXED TAKS PRACTICE

8. The function $c = 0.05x + 0.25(x - 500)$ represents a cell phone company's charge for cell phone use when $x > 500$ minutes. Which statement best describes the formula for this charge? **TAKS Obj. 1**
- F** The company charges \$0.25 per minute for each minute up to 500 minutes of cell phone use.
- G** The company charges \$0.25 for any number of minutes over 500 minutes of cell phone use.
- H** The company charges \$0.25 for any number of minutes up to 500 minutes of cell phone use.
- J** The company charges an additional \$0.25 per minute for each minute over 500 minutes of cell phone use.
9. A bike shop charges a \$6 fee plus \$3 per hour to rent one bike. If you have \$20, for how many hours can you rent a bike? **TAKS Obj. 4**
- A** 4 h
- B** 5 h
- C** 6 h
- D** 7 h
10. Which function includes the data set $\{(1, 5), (2, 3), (5, -3)\}$? **TAKS Obj. 3**
- F** $y = -2x + 7$
- G** $y = \frac{x}{2} + 7$
- H** $y = 5x - 4$
- J** $y = 5x - 7$
11. A circle has an area of 30 square inches. If the radius of the circle is tripled, which of the following will NOT occur? **TAKS Obj. 8**
- A** The diameter will triple.
- B** The circumference will triple.
- C** The area will triple.
- D** The area will be 270 square inches.
12. Which point on the coordinate plane below satisfies the conditions $x > 0.8$ and $y < 1.5$? **TAKS Obj. 6**
- 
- F** Point *P*
- G** Point *Q*
- H** Point *R*
- J** Point *S*
13. A submarine is at an elevation of -632 feet and ascends at a rate of 10 feet per second. Which expression can be used to determine the elevation of the submarine after t seconds? **TAKS Obj. 4**
- A** $-10t - 632$
- B** $-10t + 632$
- C** $10t + 632$
- D** $10t - 632$
14. A cylindrical water tank has a radius of 3 feet and a height of 6 feet. If water is pumped into the tank at a rate of 16 cubic feet per minute, about how long will it take to fill the tank? **TAKS Obj. 8**
- F** 3 min
- G** 11 min
- H** 20 min
- J** 1 h
15. **GRIDDED ANSWER** A pool in the shape of a rectangular prism is 12 feet wide and 9 feet long. The water in the pool is currently 3 feet deep, and you want the water to be 6 feet deep. How many cubic feet of water do you need to add to the pool? **TAKS Obj. 7**

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