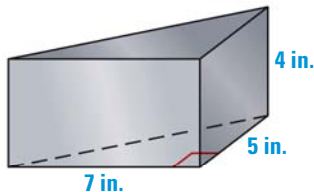
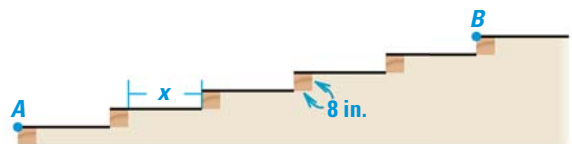


MIXED TAKS PRACTICE

9. Jenny is making candles as gifts for her friends. One of the candle molds she is using is in the shape of a right prism with the dimensions shown. What is the volume of this candle mold? **TAKS Obj. 8**



- A** 35 in.^3
B 60 in.^3
C 70 in.^3
D 140 in.^3
10. Julia has \$30 to spend on two types of yarn. Cotton yarn costs \$3.50 per ball, and wool yarn costs \$4.50 per ball. Which inequality represents the possible numbers of balls of cotton yarn, c , and wool yarn, w , that she can buy? **TAKS Obj. 4**
- F** $3.5c - 4.5w \leq 30$
G $3.5c + 4.5w \leq 30$
H $3.5c - 4.5w \geq 30$
J $3.5c + 4.5w \geq 30$
11. Angle A and angle B are vertical angles. The measure of $\angle A$ is $(5x + 4)^\circ$. The measure of $\angle B$ is $(3x + 10)^\circ$. What is the value of x ? **TAKS Obj. 6**
- A** 2
B 3
C $\frac{14}{3}$
D 7
12. What are the coordinates of the x -intercept of the line $2y = 10 + 5x$? **TAKS Obj. 3**
- F** $(-2, 0)$
G $(0, -2)$
H $(0, 5)$
J $(5, 0)$
13. What is the slope of the line identified by $3y = -6(x + 2)$? **TAKS Obj. 3**
- A** -2
B $-\frac{1}{2}$
C $\frac{1}{2}$
D 2
14. Given the line $y = 2.7x + 32.6$, which statement best describes the effect of decreasing the y -intercept by 65.2? **TAKS Obj. 3**
- F** The new line is parallel to the original.
G The new line has a lesser rate of change.
H The x -intercept decreases.
J The y -intercept increases.
15. A right circular cone has a volume of 16 cubic centimeters. The radius and height are each increased to two times their original size. What is the volume of the new right circular cone? **TAKS Obj. 8**
- A** 32 cm^3
B 64 cm^3
C 128 cm^3
D 256 cm^3
16. **GRIDDED ANSWER** An uphill park trail has been improved by building steps from wooden timbers, as shown in the diagram. The width of each timber is 8 inches. The horizontal distance between points A and B is 388 inches. What should be the distance x between timbers? Round your answer to the nearest tenth of an inch. **TAKS Obj. 10**



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