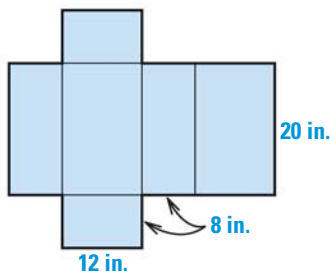


8 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVE 8

1. A toy manufacturer reduces each dimension of the packaging of its most popular product by 2 inches. The figure shows the dimensions of the original packaging. What is the surface area of the new packaging?

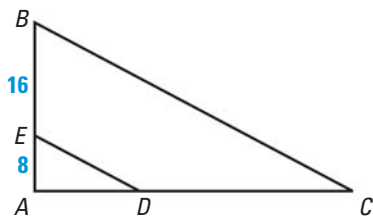


- A 588 in.²
- B 696 in.²
- C 992 in.²
- D 1336 in.²

2. A cylindrical swimming pool has a diameter of 24 feet and holds 1960 cubic feet of water. About how tall is the swimming pool?

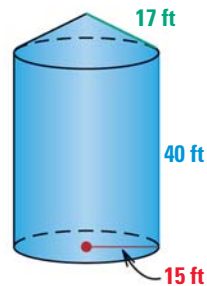
- F 3.7 ft
- G 4.3 ft
- H 6.2 ft
- J 13.6 ft

3. In $\triangle ABC$ below, \overline{ED} and \overline{BC} are parallel. If $AE = 8$ units, $EB = 16$ units, and the perimeter of $\triangle AED$ is 40 units, what is the perimeter of $\triangle ABC$?



- A 80 units
- B 120 units
- C 160 units
- D 360 units

4. A painter is hired to repaint a silo that has the dimensions shown below. One gallon of paint covers 400 square feet. How many gallons of paint does the painter need?



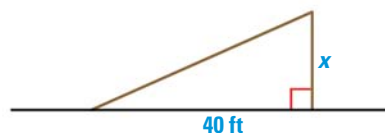
- F 12
- G 14
- H 15
- J 17

MIXED TAKS PRACTICE

5. Which of the following equations represents the line that is parallel to $y = -\frac{2}{5}x - 1$ and that passes through $(-1, 3)$? **TAKS Obj. 7**

- A $2x + 5y = 13$
- B $-5x + 2y = 11$
- C $-2x + 5y = 17$
- D $5x + 2y = 1$

6. A flag pole that is 50 feet tall snaps during a windstorm. After the flag pole snaps, its top touches the ground 40 feet from its base. How tall is the part of the flag pole that remains standing? **TAKS Obj. 10**



- F 9 ft
- G 10 ft
- H 18 ft
- J 30 ft