3 TAKS PRACTICE
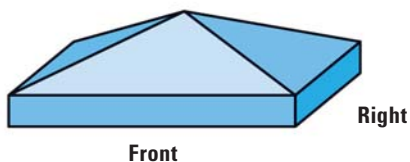
PRACTICE FOR TAKS OBJECTIVE 7

1. Which of the following represents the front view of the solid shown?
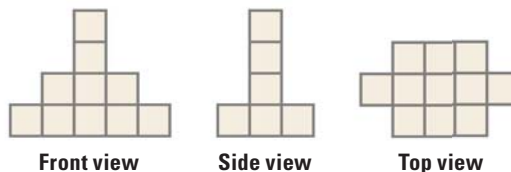

Front **Right**

A

B

C

D

2. Consider a dilation of polygon *PQRS* such that the dilation's center is the origin and the scale factor is 4. What are the coordinates of the vertex *R′*, the image of vertex *R*?
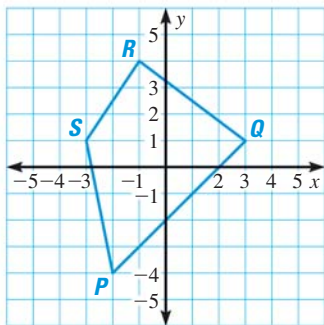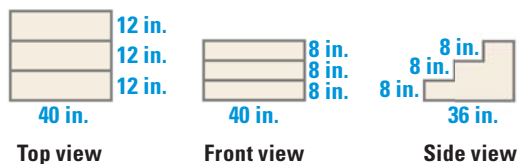

F $\left(-\frac{1}{4}, 1\right)$

G $(-4, 16)$

H $(1, -4)$

J $(3, 8)$

3. The front, side, and top views of a solid built with cubes are shown. How many cubes are needed to construct the solid?

Front view   **Side view**   **Top view**

A 12

B 16

C 18

D 22

4. The top, front, and side views of a solid are shown. What is the surface area of the solid?

Top view   **Front view**   **Side view**

F 2400 in.^{2}

G 2976 in.^{2}

H 4512 in.^{2}

J 5952 in.^{2}

MIXED TAKS PRACTICE

5. The solution of which system is (0, 4)?
TAKS Obj. 4

A $x + y = 4$
   $x - y = 4$

B $2x + y = -4$
   $x - 2y = 8$

C $3x + 2y = 8$
   $x - 4y = -16$

D $2x + y = 4$
   $3x - 2y = 12$