

Find the surface area of the following:

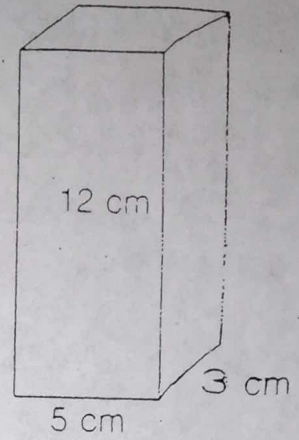
1. First, find the area of each side.

a. Top and bottom  $2 \cdot (\underline{5} \times \underline{3}) = \underline{30} \text{ cm}^2$

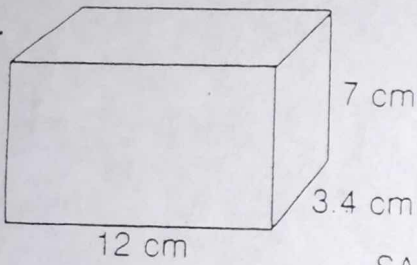
b. Front and back  $2 \cdot (\underline{\quad} \times \underline{\quad}) = \underline{\quad} \text{ cm}^2$

c. Sides  $2 \cdot (\underline{\quad} \times \underline{\quad}) = \underline{\quad} \text{ cm}^2$

d. Add the area of the sides:  $SA = \underline{\quad} \text{ cm}^2$

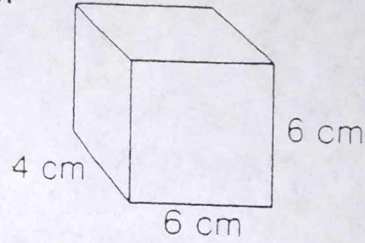


2.



$SA = \underline{\quad} \text{ cm}^2$

3.



$SA = \underline{\quad} \text{ cm}^2$

LESSON

8G

# Review for Mastery

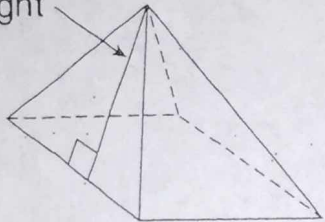
## Surface Area of Pyramids and Cones

### Regular Pyramid:

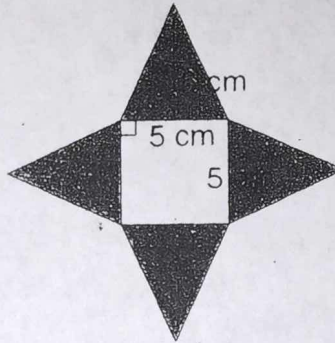
base is a regular polygon; lateral faces are congruent triangles

When a square pyramid is unfolded, there are 5 faces: a square and 4 congruent triangles.

Slant height  
 $l$



Square Pyramid



Surface Area  $S$  = the sum of the areas of the faces of the pyramid

= area of base + area of lateral faces

Surface Area  $S$  = area of square + 4(area of triangle)

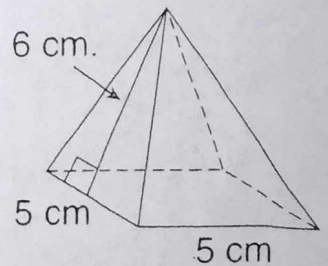
=

$$S = B +$$

$$S = (5 \times 5) +$$

$$S = 25 +$$

$$S = 85 \text{ cm}^2$$



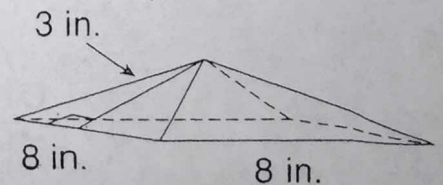
1. Find the surface area of the square pyramid.

$S$  = area of square + 4(area of triangle)

$$S = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$S = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$S = \underline{\hspace{2cm}} \text{ in}^2$$



2. Complete to find the surface area of the square pyramid.

$$S =$$

$$S = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

$$S = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$S = \underline{\hspace{2cm}} \text{ ft}^2$$

