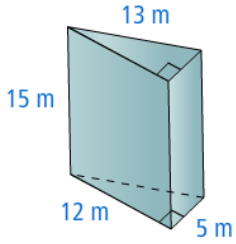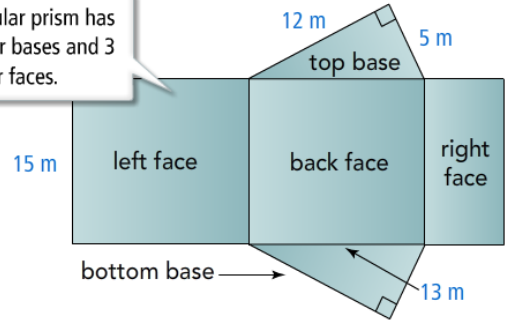Surfaces Area Practice   Name _____

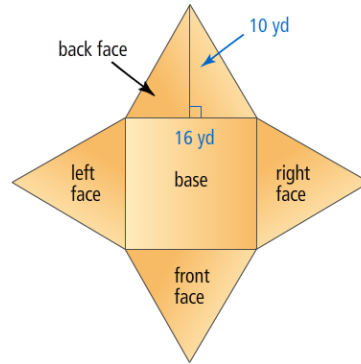1. Find the Surface Area of the Triangular Prism.

The triangular prism has 2 triangular bases and 3 rectangular faces.
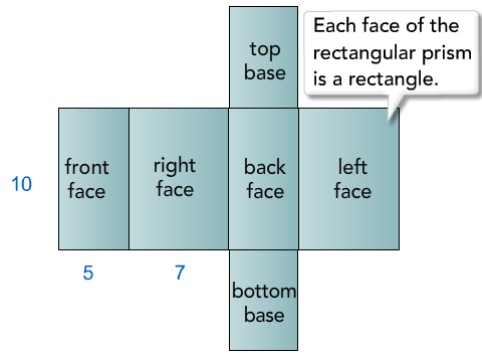
13 m
15 m
12 m
5 m

12 m
5 m
top base
15 m
left face
back face
right face
bottom base
13 m

Left Face	Back Face	Right Face
Top Base	Bottom Base	**Total Surface Area:**

2. Find the Surface Area of the Square Pyramid.

10 yd
16 yd

back face
10 yd
16 yd
left face
base
right face
front face
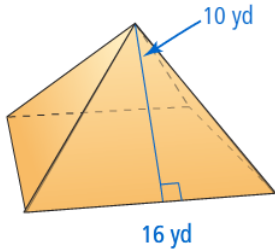
Front Face	Back Face	Right Face
Left Face	Base	**Total Surface Area:**

3. Find the Surface Area of the Rectangular Prism.

top base

Each face of the rectangular prism is a rectangle.

front face right face back face left face

10

5   7
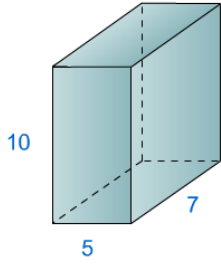
bottom base

Front Face	Right Face	Back Face
Top Base	**Bottom Base**	**Left Base**

Total Surface Area:

4. Find the Surface Area of the Rectangular Pyramid.

6.9 ft   6.3 ft

7 ft

4 ft

6.3 ft
left face
front face
7 ft
4 ft   base   back face
6.9 ft
right face
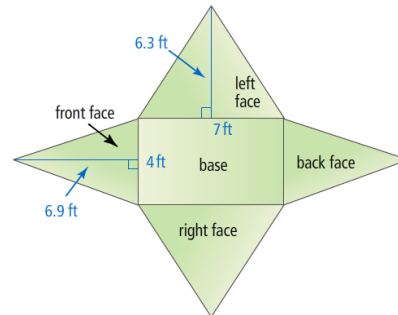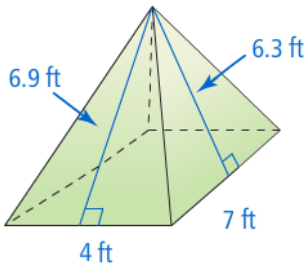
Front Face	Right Face	Back Face
Left Face	**Base**	**Total Surface Area:**

5. Find the Surface Area of the Cube

$4\frac{1}{2}$ in.

back face

Each face of the cube is a square.

left face | bottom face | right face | top face

$4\frac{1}{2}$ in.
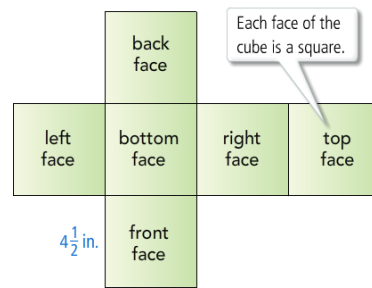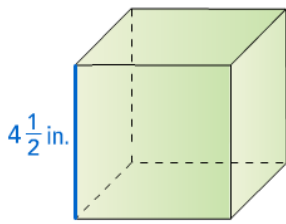
front face

Front Face	Left Face	Back Face
Bottom Face	Right Face	Top Face

Total Surface Area:

6. Find the Surface Area of the Regular Triangular Pyramid.

8.2

5.2

6

left face

right face

8.2

base

6

5.2
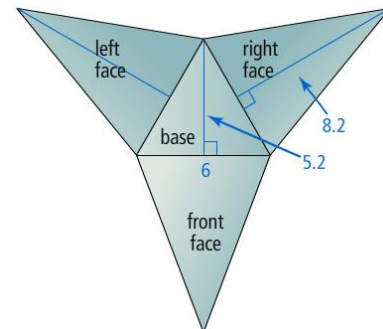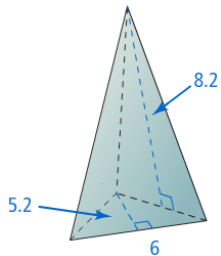
front face

Left Face	Right Face	Front Face
Base		**Total Surface Area:**

This is an Example. Your Work Should Look Just as Organized and Complete as Mine!!
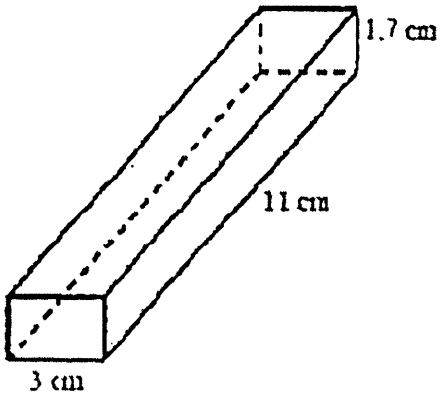
1. Find the Surface Area   <u>**Draw and Label the Net**</u>

25 m

25 m

15 m

20 m

20m

20m   15m   25 m

20m

$2 \triangle$ Bases:

$A = \dfrac{b \cdot h}{2}$

$A = ?$ $A = \dfrac{15 \cdot 20}{2}$

$b = 15\,m$

$h = 20\,m$ $A = 150 \times 2\ A's$ $= \underline{300\,m^2}$

Bottom

$A = b \cdot h$ $A = 20 \cdot 25$

$A = ?$

$B = 20\,m$ $A = \underline{500\,m^2}$

$h = 25\,m$

Right Face

$A = b \cdot h$

$A = ?$ $A = 15 \cdot 25$

$b = 15\,m$ $A = \underline{375\,m^2}$

$h = 25\,m$

Left Face

$A = b \cdot h$ $A = 25 \cdot 25$

$A = ?$

$b = 25\,m$ $A = \underline{625\,m^2}$

$h = 25\,m$

$\mathsf{Surface\ Area}$

$300 + 500 + 375 + 625 =$

$1800\,m^2$

2. Find the Surface Area   **Draw and Label the Net**

1.7 cm

11 cm

3 cm

3. Find the Surface Area

29 cm

6.5 cm

19 cm

4. Find the Surface Area

8 m 15 m

17 m

8 m
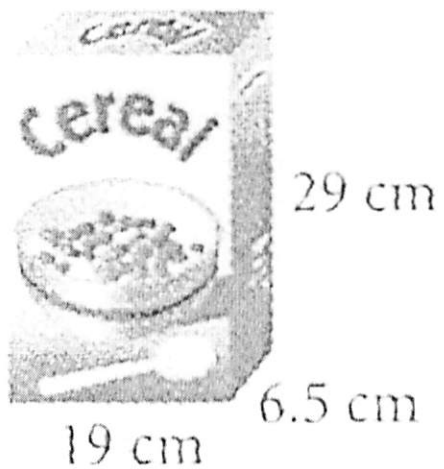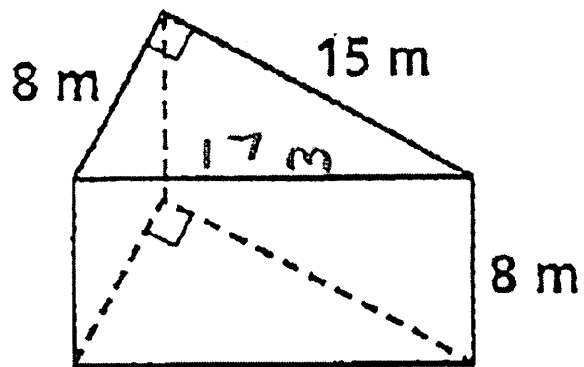
5. Find the Surface Area of the Regular Hexagonal Prism — **Draw and Label the Net**

17cm

2cm

6cm
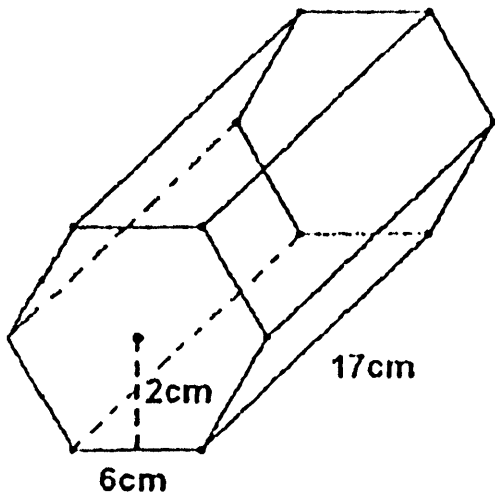
2 Hexagon Bases

6 Rectangles
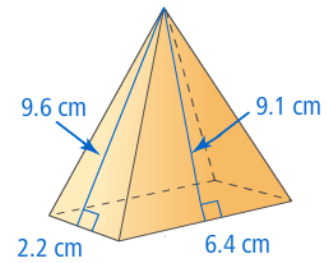
6. Find the Surface Area of the Square Pyramid

Draw and Label the Net

7.2 in.

8 in.
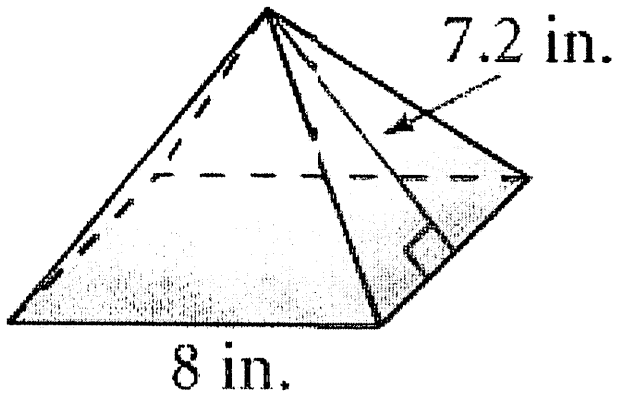
Square Base	
4 ≅ triangles	

Example

Find the surface area of the rectangular pyramid to the nearest square centimeter.

9.6 cm

9.1 cm

2.2 cm

6.4 cm

Example

The mailing package has the shape of a regular triangular prism. Find how many square inches of cardboard it takes to make the mailing package. Round your answer to the nearest square inch.

not to scale

5.2 in.

25 in.

6 in.
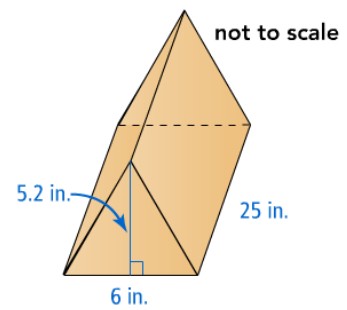
Challenge:

You plan to build a birdhouse with one square doorway as shown. How many square centimeters of wood do you need to make the birdhouse?