$\qquad$
Date: $\qquad$

1. Match the following terms with the correct definition:
$\qquad$ perimeter
$\qquad$ area
A. the space occupied by a flat (2-dimensional shape)
B. a 2-dimensional pattern that you could cut and fold to make a model of a 3-dimensional shape
$\qquad$ net
C. the sum of all the areas of all the faces of a 3dimensional shape
D. the distance around a two-dimensional shape
2. Sketch a net of the object shown. Label the dimensions.

3. Which block of cheese has more surface area to wrap: the rectangular prism or the cylinder? By how much, to the nearest square centimere?

4. Calculate the surface area of the triangular prism.

5. A sphere has a diameter of 12 cm . What is the sphere's surface area, rounded to the nearest hundredth?
6. Melissa is making a bird feeder with a metal roof.

Melissa made an error when she calculated the area of metal needed for the roof. Circle the error and correct her solution.
$S A$ (roof) is the lateral area of cone
$S A=\pi r s$
$=\pi(20 \mathrm{~cm})(30 \mathrm{~cm})$

$$
=1884.955 \ldots \mathrm{~cm}^{2}
$$

I will need about $1880 \mathrm{~cm}^{2}$ of metal for
base diameter $=20 \mathrm{~cm}$ the roof.
7. Calculate the surface area of the figure shown. The height to the peak is 15 ft .


