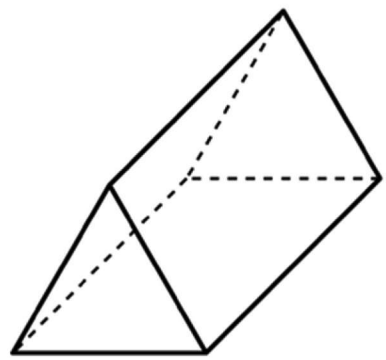
Name _____ Date _____

Constructing Nets

Sketch and label a net of this pizza box. It has a square top that measures 16 inches on a side, and the height is 2 inches. Treat the box as a prism, without counting the interior flaps that a pizza box usually has.

1. Sketch and label the net of the following solid figures, and label the edge lengths.
   a. A cereal box that measures 13 inches high, 7 inches long, and 2 inches wide
   b. A cubic gift box that measures 8 cm on each edge
   c. Challenge: Write a numerical expression for the total area of the net in part (b). Tell what each of the terms in your expression means.

2. This tent is shaped like a triangular prism. It has equilateral bases that measure 5 feet on each side. The tent is 8 feet long. Sketch the net of the tent, and label the edge lengths.

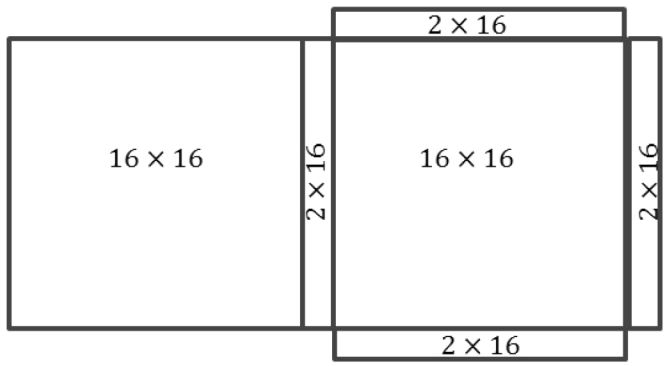


3. The base of a table is shaped like a square pyramid. The pyramid has equilateral faces that measure 25 inches on each side. The base is 25 inches long. Sketch the net of the table base, and label the edge lengths.

4. The roof of a shed is in the shape of a triangular prism. It has equilateral bases that measure 3 feet on each side. The length of the roof is 10 feet. Sketch the net of the roof, and label the edge lengths.

Sketch and label a net of this pizza box. It has a square top that measures 16 inches on a side, and the height is 2 inches. Treat the box as a prism, without counting the interior flaps that a pizza box usually has.

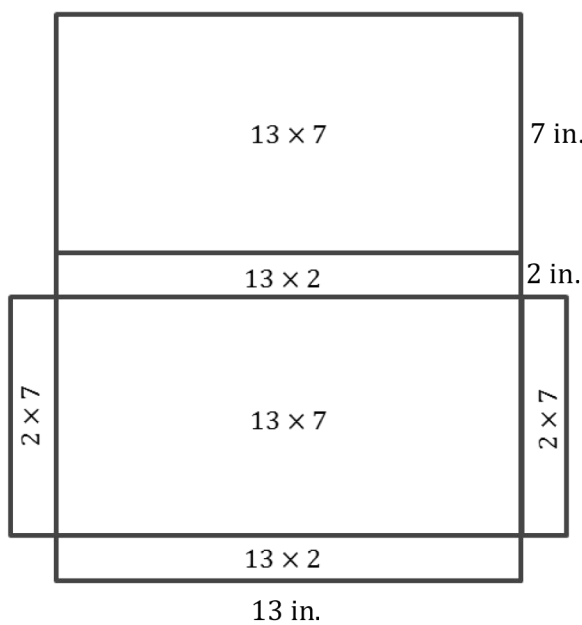
One possible configuration of faces is shown here:



1. Sketch and label the net of the following solid figures, and label the edge lengths.

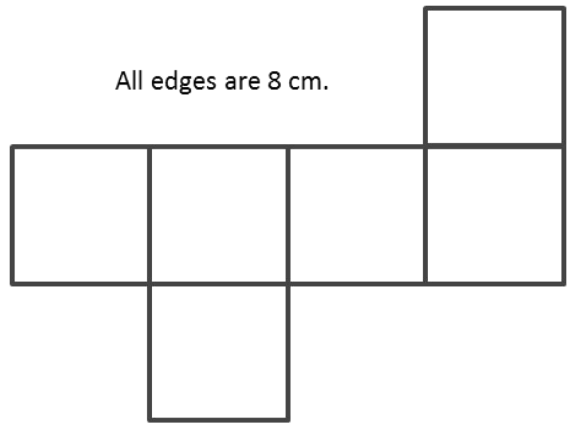
a. A cereal box that measures 13 inches high, 7 inches long, and 2 inches wide

One possible configuration of faces is shown here:



b. **A cubic gift box that measures 8 cm on each edge**

One possible configuration of faces is shown here:



c. **Challenge: Write a numerical expression for the total area of the net in part (b). Tell what each of the terms in your expression means.**

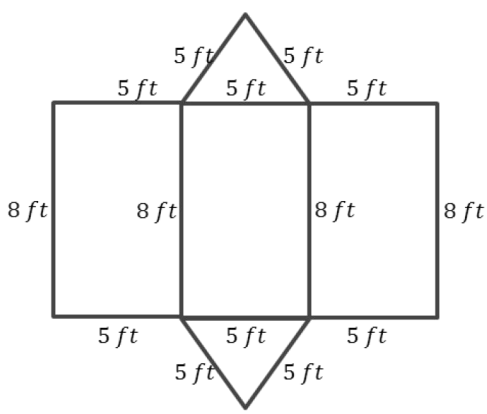
$6(8 \text{ cm} \times 8 \text{ cm})$ ***or***

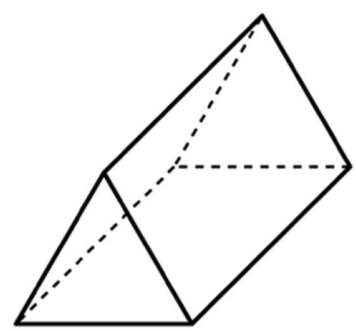
$(8 \text{ cm} \times 8 \text{ cm}) + (8 \text{ cm} \times 8 \text{ cm}) + (8 \text{ cm} \times 8 \text{ cm}) + (8 \text{ cm} \times 8 \text{ cm}) + (8 \text{ cm} \times 8 \text{ cm}) + (8 \text{ cm} \times 8 \text{ cm})$

There are 6 faces in the cube, and each has dimensions 8 cm by 8 cm.

2. **This tent is shaped like a triangular prism. It has equilateral bases that measure 5 feet on each side. The tent is 8 feet long. Sketch the net of the tent, and label the edge lengths.**

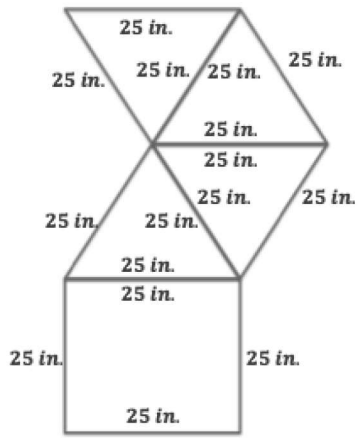
Possible net:





3. The base of a table is shaped like a square pyramid. The pyramid has equilateral faces that measure 25 inches on each side. The base is 25 inches long. Sketch the net of the table base, and label the edge lengths.

Possible net:



4. The roof of a shed is in the shape of a triangular prism. It has equilateral bases that measure 3 feet on each side. The length of the roof is 10 feet. Sketch the net of the roof, and label the edge lengths.

Possible net: