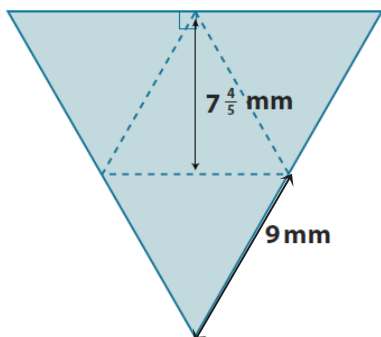


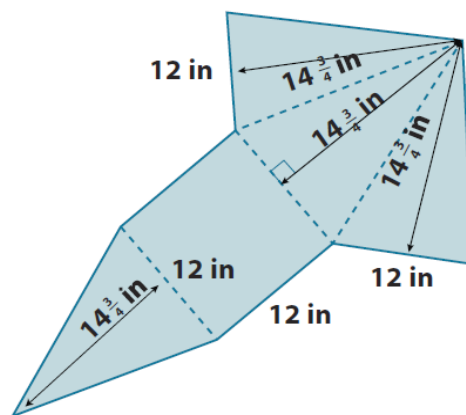
Problem Set

1. For each of the following nets, draw (or describe) the solid represented by the net and find its surface area.

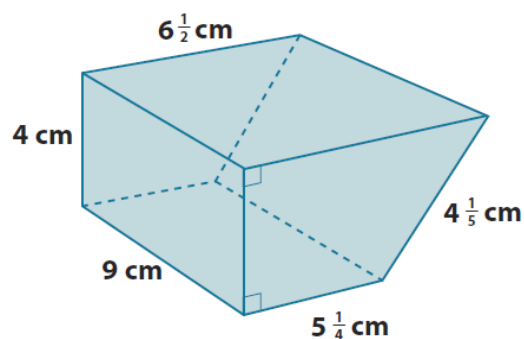
a. The equilateral triangles are exact copies.



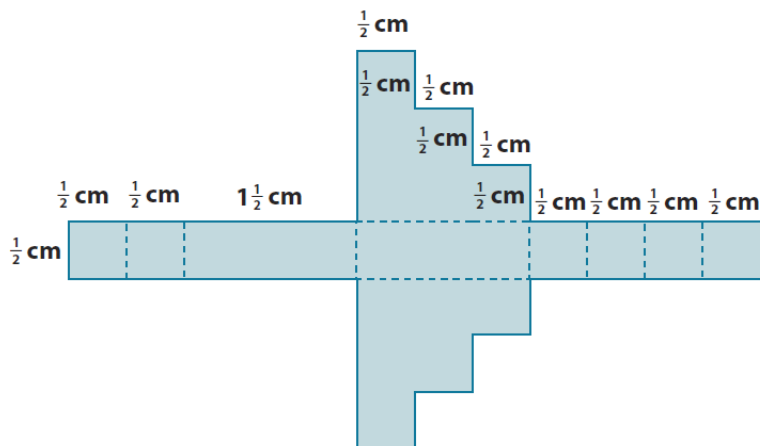
b.



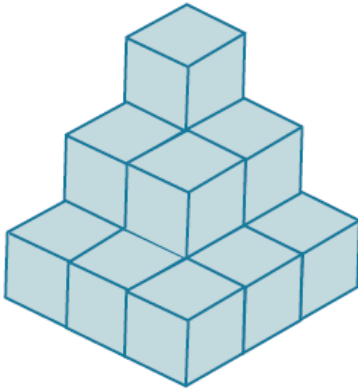
2. Find the surface area of the following prism.



3. The net below is for a specific object. The measurements shown are in meters. Sketch (or describe) the object, and then find its surface area.

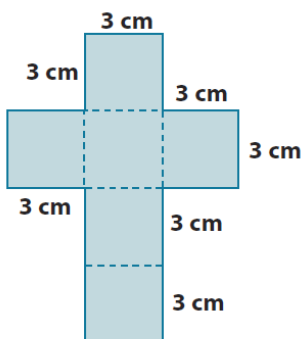


4. In the diagram, there are 14 cubes glued together to form a solid. Each cube has a volume of $\frac{1}{8}\text{in}^3$. Find the surface area of the solid.

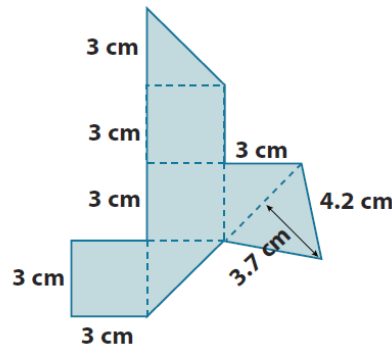


5. The nets below represent three solids. Sketch (or describe) each solid, and find its surface area.

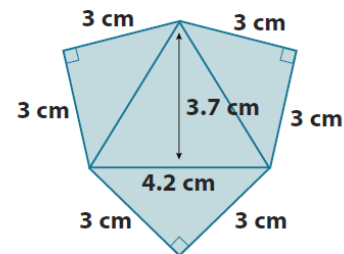
a.



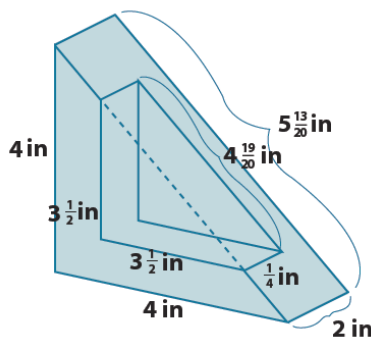
b.



c.



- d. How are figures (b) and (c) related to figure (a)?
6. Find the surface area of the solid shown in the diagram. The solid is a right triangular prism (with right triangular bases) with a smaller right triangular prism removed from it.



7. The diagram shows a cubic meter that has had three square holes punched completely through the cube on three perpendicular axes. Find the surface area of the remaining solid.

