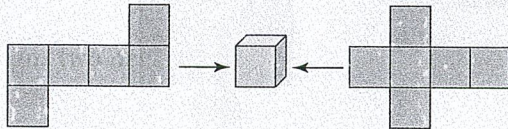




Connect and Reflect

Key Ideas

- A net is a 2-D shape that, when folded, encloses a 3-D object.
- You can create the same 3-D object by folding different nets.

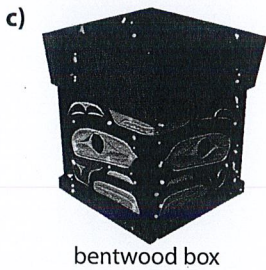
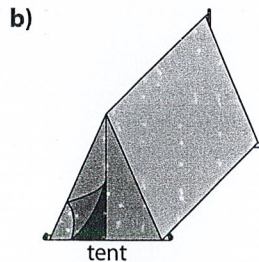
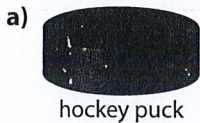


- You can draw a net for an object by visualizing what it would look like if you cut along the edges and flattened it out.

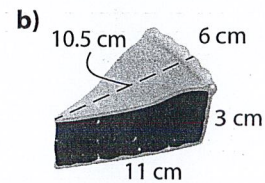
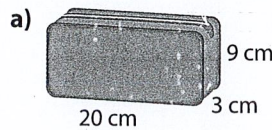
Practise

For help with #1 to #4, refer to Example 1 on page 45.

1. Sketch a net for each object.



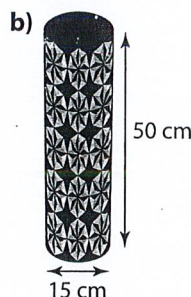
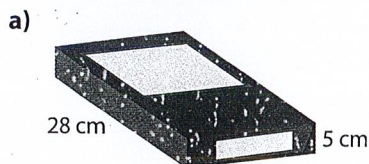
3. Draw a net for each object. Label the measurements on the net.



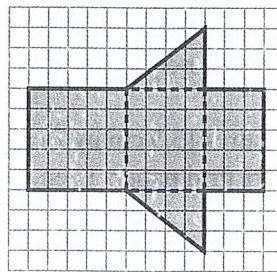
4. Draw a net on grid paper for a rectangular prism with a length of 6 units, width of 4 units, and height of 2 units.

For help with #5 and #6, refer to Example 2 on page 46.

2. Draw a net for each object. Label the measurements on the net.

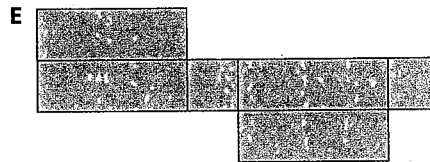
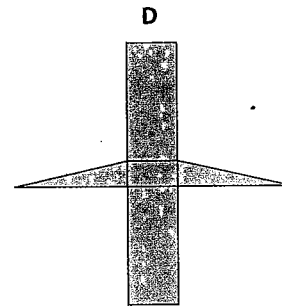
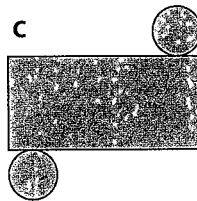
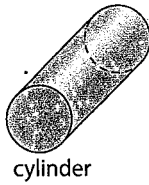
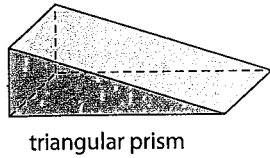
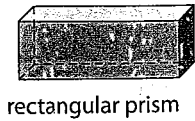


5. a) Draw the net on grid paper, as shown. Cut along the outside edges of the net and fold it to form a 3-D object.



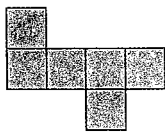
b) What is this object called?

6. Match each solid with its net. Copy the nets, and then try to create the 3-D objects.



Apply

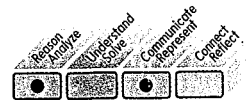
7. Both of these nets have six faces, like a cube. Will both nets form a cube? Justify your answer.



Net A



Net B



8. A box of pens measures 15.5 cm by 7 cm by 2.5 cm. Draw a net for the box on a piece of centimetre grid paper. Then, cut it out and fold it to form the box.

9. **Competency Check** Patricia cannot figure out if a net will build the correct 3-D object. She asks you for help after school. Use an example to show how you would help her decide whether a net can build a particular 3-D object.

