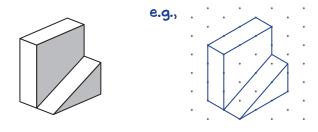
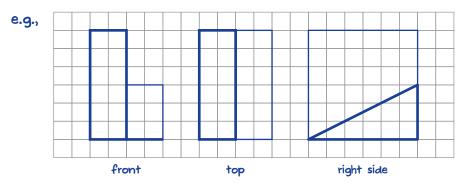


BET ME

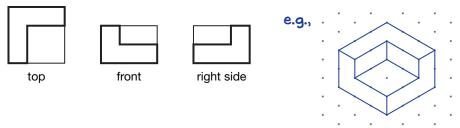
1. a) Create an isometric drawing of this object.



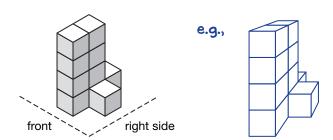
**b)** Draw the front, top, and right-side views of the object in Part a).



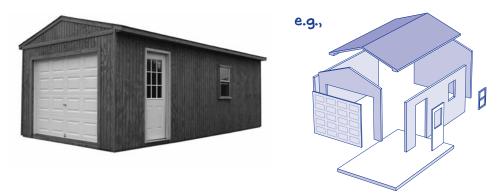
**2.** Create an isometric drawing of the object shown in these views.



3. Make a one-point perspective drawing of this cube structure.



4. Draw an exploded view of this garage.



- **5.** A scale on a map of Nunavut shows that 2 cm on the map represents 15 km.
  - a) What is the scale ratio on this map?

$$2 \text{ cm} = 0.02 \text{ m}$$
 15 km = 15000 m  
e.g.,  $\frac{0.02}{15000} = \frac{2}{1500000}$ , or 1:750000

b) What is the scale factor? What does it mean?

e.g., The scale factor is 750000. That means a distance on the map

is multiplied by 750000 to determine the actual distance on land.

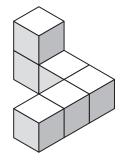
**c)** The distance between Brandon and Winnipeg is 200 km. What is this distance on the map?

e.g.,  $200 \text{ km} = 200\,000 \text{ m}$ , or  $20\,000\,000 \text{ cm}$ 

 $20\,000\,000\,\,\mathrm{cm}\, imes\,rac{1}{750\,000}\,=\,26.666...\,\,\mathrm{cm}$ 

The distance on the map is about 27 cm.

- 6. This cube structure was made using 1 cm linking cubes. Use grid paper. Draw a 2:1 scale diagram of the top, front, and right-side views.
- 7. a) A cylindrical gas storage tank has a diameter of 12.0 m. Its height is 16.0 m. Use technology. Draw a scale diagram of the top and front views of the tank.



**b)** How might someone use a scale drawing of a gas storage tank?

e.g., Someone might be designing a different storage tank and want to compare the design with a scale diagram of one they have.

