Are You Ready? Possible Solutions

1. From the Explore section:

   Area is the amount of square units occupying an enclosed shape or two-dimensional space. To find the area of a shape, you need to multiply two dimensions of the shape together. For example,

   $1 \text{ cm} \times 1 \text{ cm} = 1 \text{ cm}^2$

   On the other hand, volume measures the amount of cubic units occupying a *three*-dimensional space. To find the volume of an object, you need to multiply three dimensions of the object together. For example,

   $1 \text{ cm} \times 1 \text{ cm} \times 1 \text{ cm} = 1 \text{ cm}^3$

2. $V = \ell wh$

3. $V = 5 \text{ cm} \times 5 \text{ cm} \times 5 \text{ cm} = 125 \text{ cm}^3$

4. $V = \ell wh$
   $V = 14 \text{ m} \times 3 \text{ m} \times 2 \text{ m}$
   $V = 84 \text{ m}^3$

5. You could submerge the object in a container filled to the brim with water. The volume of water displaced, in mL, is equal to the same number of cubic centimetres.