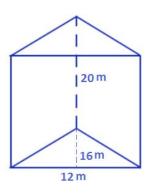
Mathematics 20-3

Chapter 3 Challenge

1. Write down the definitions for the following terms.

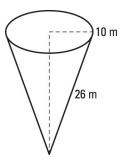
a. Surface area:

- 2. Use the image provided to answer the following questions.
 - a. Draw a net for the following shape and label the dimensions of each side.



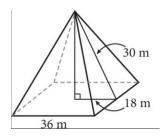
- b. The 3D object below is known as a_____
- c. Calculate the surface area. Round the nearest whole.

- 3. Use the image provided to answer the following questions.
 - a. Draw a net for the following shape and label the dimensions of each side.



- b. The 3D object below is known as a_____
- c. Calculate the surface area. Round to the nearest tenth.

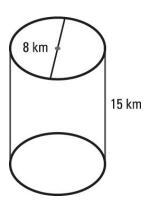
- 4. Use the image provided to answer the following questions.
 - a. Draw a net for the following shape and label the dimensions of each side.



b. The 3D object below is known as a_____

c. Calculate the surface area.

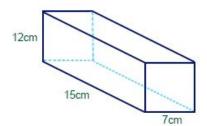
- 5. Use the image provided to answer the following questions.
 - a. Draw a net for the following shape and label the dimensions of each side.



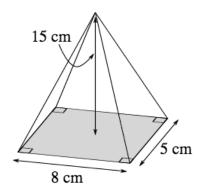
- b. The 3D object below is known as a_____
- c. Calculate the surface area. Round to the nearest tenth.

5. Find the volume of the following objects.

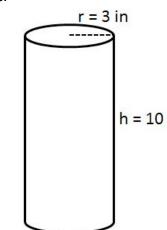
a.



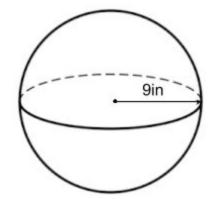
b.



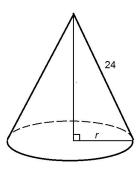
C.



d.



6. The volume of the cone is 318cm³. Use the information given in the image to determine the radius. *Round to the nearest centimetre*.



7. Determine the capacity of the shapes in question 5.

a.
$$1L = 1000 \text{cm}^3$$

b.
$$1L = 1000 \text{cm}^3$$

c.
$$1L = 61.0237in^3$$

d.
$$1L = 61.0237in^3$$

8.	What is the difference between Volume and Capacity? Provide an example.