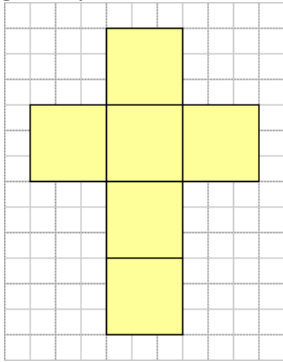
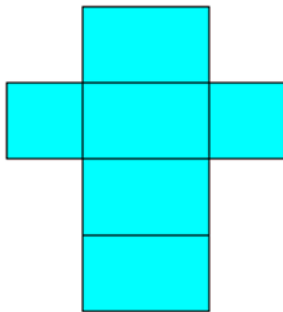


2. a) What is the surface area of the 3-D figure with this net? Each small square on the background grid represents 1cm^2

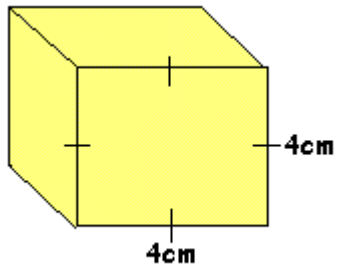


- b) What is the surface area of the 3-D figure with this net? The rectangles are similar and measure 5 cm by 3 cm.



SURFACE AREA AND VOLUME

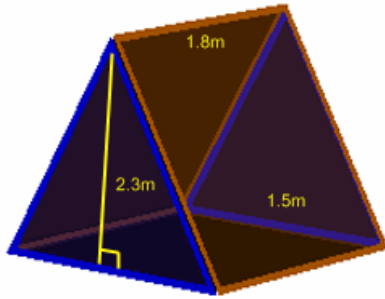
3. Calculate the surface area and volume of the following rectangular prisms:
a)



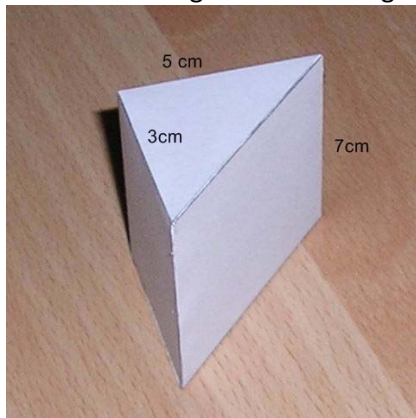
b)



4. Calculate the surface area and volume of the following triangular prisms.
a)

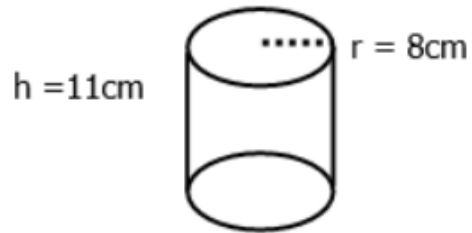


- b) Note - the triangular base is a right triangle with height 3cm.

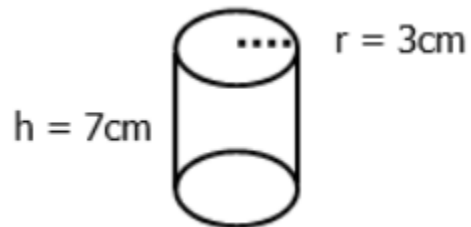


SURFACE AREA AND VOLUME

5. Calculate the surface area and volume of the following cylinders.
- a) A cylinder where the radius of the base is 8cm and the height is 11 cm.

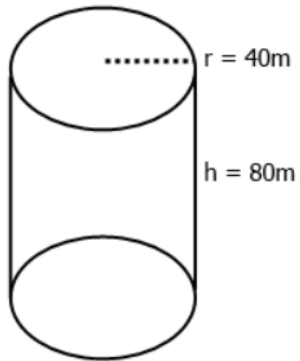


- b) A cylinder where the radius of the base is 3cm and the height is 7 cm.



SURFACE AREA AND VOLUME

6. A cylindrical storage tank has a diameter of 40 meters and a height of 80 meters. If a liter of paint can cover 10 square meters, how many liters are needed to apply 2 coats of paint to the sides and top of one tank?



7. a) Complete the following table

| | Area of Base | Height | Volume |
|---|-------------------|--------|--------------------|
| A | 35 cm^2 | 25cm | |
| B | 3.8 km^2 | 1.2km | |
| C | 127 mm^2 | | 2378 mm^3 |
| D | | 0.7m | 2.8 m^3 |

- c) Does it matter what shape the base is for the table above? Why or why not?