**Volume of Cylinders GREEN**

**Question 1**

Calculate the volumes of the cylinders below. Give your answers correct to 1 decimal place.

a) b) c)



**Question 2**

Calculate the missing lengths in the cylinders below, using their given volumes. Give your answers correct to 1 decimal place.

a) b) c)



**Question 3**

The diagram shows a piece of wood.

The piece of wood is a prism of length 350 cm.

The cross-section of the prism is a semi-circle with diameter 1.2 cm.

Calculate the volume of the piece of wood.

Give your answer correct to 3 significant figures.

**Volume of Cylinders AMBER**

**Question 1**

Calculate the volumes of the cylinders below. Give your answers correct to 1 decimal place.

a) b) c)



Volume $=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_$

**Question 2**

Calculate the missing lengths in the cylinders below, using their given volumes. Give your answers correct to 1 decimal place.

a) b) c)



$900=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_$

This is half a cylinder!

**Question 3**

The diagram shows a piece of wood.

The piece of wood is a prism of length 350 cm.

The cross-section of the prism is a semi-circle with diameter 1.2 cm.

Calculate the volume of the piece of wood.

Give your answer correct to 3 significant figures.

**Volume of Cylinders RED**

**Question 1**

Calculate the volumes of the cylinders below. Give your answers correct to 1 decimal place.

a) b) c)



Volume $=π×3^{2}×8$ Volume $=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_$ Volume $=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_$

 $=$

**Question 2**

Calculate the missing lengths in the cylinders below, using their given volumes. Give your answers correct to 1 decimal place.

a) b) c)



$900=π×6^{2}×a$ $60=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_$ $50=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_$

This is half a cylinder!

**Question 3**

The diagram shows a piece of wood.

The piece of wood is a prism of length 350 cm.

The cross-section of the prism is a semi-circle with diameter 1.2 cm.

Calculate the volume of the piece of wood.

Give your answer correct to 3 significant figures.

Volume $=π×\\_\\_\\_\\_\\_^{2}×\\_\\_\\_\\_\\_÷2$