**Surface Area of Cylinders GREEN**

**Question 1**

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

a) b) c)



**Question 2**

On a farm, there is a grain silo.

The silo is cylindrical with a tile roof.

The silo has a diameter of 4 metres and is 6 metres tall.

The farmer wants to paint the curved surface of the silo.

Each can of paint will cover 30 m².

The paint costs £15.95 per can.

How much will it cost the farmer to paint the silo?

**Question 3**

This cylinder has a surface area of $400π$ cm2.

Calculate the value of $x$.

**Surface Area of Cylinders AMBER**

**Question 1**

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

a) b) c)



Top:

Bottom:

Label:

Total:

**Question 2**

On a farm, there is a grain silo.

The silo is cylindrical with a tile roof.

The silo has a diameter of 4 metres and is 6 metres tall.

The farmer wants to paint the curved surface of the silo.

Each can of paint will cover 30 m².

The paint costs £15.95 per can.

How much will it cost the farmer to paint the silo?

Curved surface area:

**Question 3**

Set up an equation and solve it!

This cylinder has a surface area of $400π$ cm2.

Calculate the value of $x$.

**Surface Area of Cylinders RED**

**Question 1**

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

a) b) c)



Top: $π×3^{2}=$ Top:

Bottom: $π×\\_\\_\\_\\_\\_^{2}=$ Bottom:

Label: $π×\\_\\_\\_\\_\\_×8=$ Label:

Total: Total:

**Question 2**

On a farm, there is a grain silo.

The silo is cylindrical with a tile roof.

The silo has a diameter of 4 metres and is 6 metres tall.

The farmer wants to paint the curved surface of the silo.

Each can of paint will cover 30 m².

The paint costs £15.95 per can.

How much will it cost the farmer to paint the silo?

Curved surface area: $π×\\_\\_\\_\\_\\_×\\_\\_\\_\\_\\_=$

**Question 3**

Set up an equation and solve it!

This cylinder has a surface area of $400π$ cm2.

Calculate the value of $x$.

Radius: $x$ Diameter: $2x$ Height: $x$

Surface area: $400π=πx^{2}+πx^{2}+2πx^{2}$

 $400π=4πx^{2}$