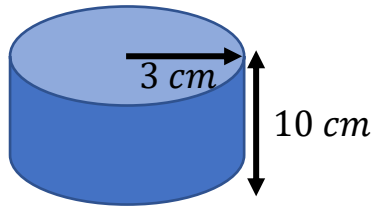


a) Calculate the surface area of the cylinder



Area of top: *radius is 3cm*
 $= \pi \times r^2$
 $= \pi \times 3^2$
 $= 28.27433 \dots$
 $= 28.27 \text{ cm}^2$

Area of base:
 $= 28.27 \text{ cm}^2$

Area of curved surface: *height is 10cm*

$$= 2 \times \pi \times r \times h$$

$$= 2 \times \pi \times 3 \times 10$$

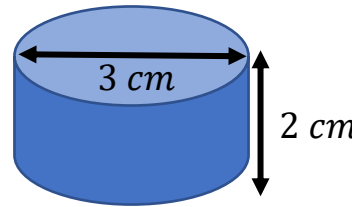
$$= 188.49555 \dots$$

$$= 188.5 \text{ cm}^2$$

Sum of the faces:

$$188.5 + 28.27 + 28.27 = 245.04 \text{ cm}^2$$

b) Calculate the surface area of the cylinder



Area of top: *radius is 1.5cm*
 $= \pi \times r^2$
 $= \pi \times 1.5^2$
 $= 7.06858 \dots$
 $= 7.07 \text{ cm}^2$

Area of base:
 $= 7.07 \text{ cm}^2$

Area of curved surface: *height is 2cm*

$$= 2 \times \pi \times r \times h$$

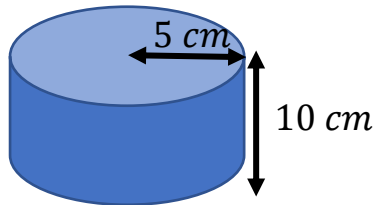
$$= 2 \times \pi \times 1.5 \times 2$$

$$= 18.84955 \dots$$

$$= 18.85 \text{ cm}^2$$

Sum of the faces:

c) Calculate the surface area of the cylinder



Area of top: *radius is 5cm*
 $= \pi \times r^2$
 $= \pi \times 5^2$
 $= 78.53981 \dots$
 $= 78.54 \text{ cm}^2$

Area of base:
 $= 78.54 \text{ cm}^2$

Area of curved surface: *height is*

$$= 2 \times \pi \times r \times h$$

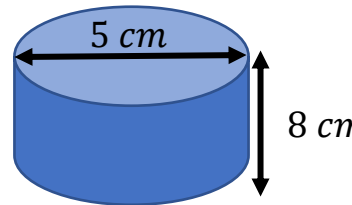
$$= 2 \times \pi \times$$

$$=$$

$$=$$

Sum of the faces:

d) Calculate the surface area of the cylinder



Area of top: *radius is 2.5cm*
 $= \pi \times r^2$
 $= \pi \times 2.5^2$
 $=$
 $=$

Area of base:
 $=$

Area of curved surface: *height is*

$$= 2 \times \pi \times r \times h$$

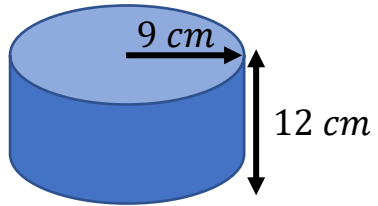
$$= 2 \times \pi \times$$

$$=$$

$$=$$

Sum of the faces:

e) Calculate the surface area of the cylinder



Area of top: *radius is*

$$= \pi \times r^2$$

$$= \pi \times$$

$$=$$

$$=$$

Area of base:

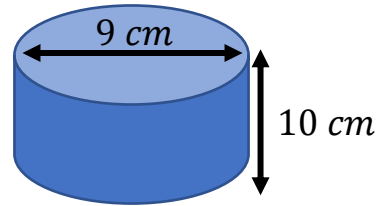
$$=$$

Area of curved surface: *height is*



Sum of the faces:

f) Calculate the surface area of the cylinder



Area of top:



Area of base:

Area of curved surface:

Sum of the faces: