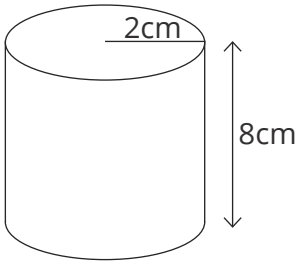
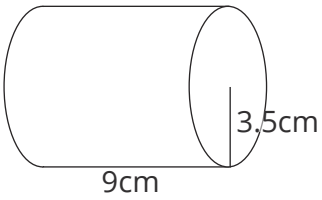
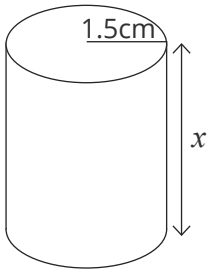
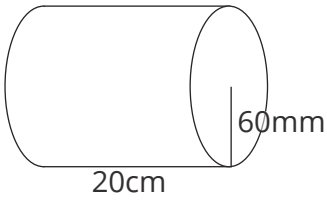
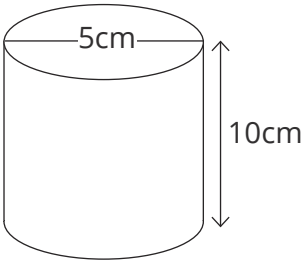
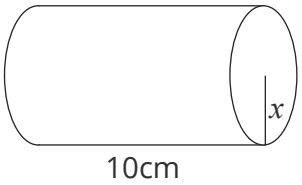
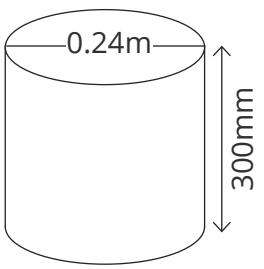
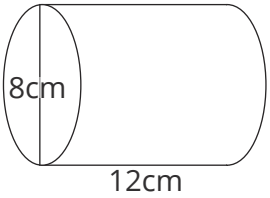
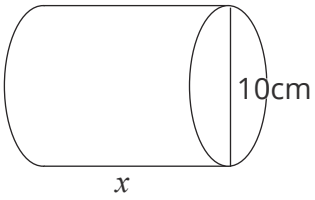
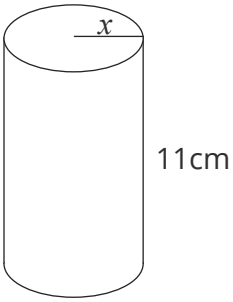
Volume of Cylinders – Matching Cards **Answers**

(Diagrams are not drawn to scale).

Calculate the volume of the shape, giving your answer correct to the nearest whole number.		$\pi \times 2^2 \times 8$	101cm^3
Calculate the volume of the shape, giving your answer correct to the nearest whole number.		$\pi \times 3.5^2 \times 9$	346cm^3
The volume of the cylinder is 42cm^3. Calculate its height (x) giving your answer correct to 1 decimal place.		$x = \frac{42}{\pi \times 2.25}$	5.9cm
Calculate the volume of the shape, giving your answer correct to the nearest whole cm^3.		$\pi \times 36 \times 20$	2262cm^3
Calculate the volume of the shape, giving your answer correct to 1 significant figure.		$\pi \times 2.5^2 \times 10$	200cm^3
The volume of the cylinder is 166cm^3. Calculate its radius (x), giving your answer correct to 1 decimal place.		$x = \sqrt{\frac{166}{10\pi}}$	2.3cm
Calculate the volume of the shape, giving your answer correct to the nearest whole cm^3.		$\pi \times 144 \times 30$	$13\,572\text{cm}^3$

Calculate the volume of the shape, giving your answer correct to 2 significant figures.		$\pi \times 16 \times 12$	600cm^3
The volume of the cylinder is 1963cm^3. Calculate its height (x), giving your answer correct to the nearest whole number.		$x = \frac{1963}{\pi \times 25}$	25cm
The volume of the cylinder is 100cm^3. Calculate its radius (x), giving your answer correct to 1 decimal place.		$x = \sqrt{\frac{100}{11\pi}}$	1.7cm

Volume of Cylinders – Matching Cards

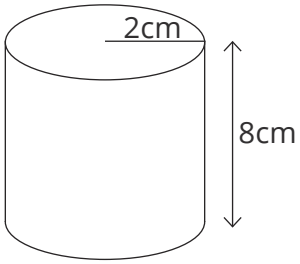
Instructions

Cut out every card then match each diagram to the correct working and answer.

(Diagrams are not drawn to scale).

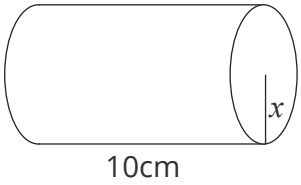
$\pi \times 3.5^2 \times 9$	$x = \frac{1963}{\pi \times 25}$	600cm^3	200cm^3
$x = \sqrt{\frac{166}{10\pi}}$	$\pi \times 36 \times 20$	346cm^3	$13\ 572\text{cm}^3$
$x = \frac{42}{\pi \times 2.25}$	$\pi \times 16 \times 12$	25cm	2262cm^3
$\pi \times 2.5^2 \times 10$	$\pi \times 2^2 \times 8$	101cm^3	1.7cm
$\pi \times 144 \times 30$	$x = \sqrt{\frac{100}{11\pi}}$	2.3cm	5.9cm

Calculate the volume of the shape, giving your answer correct to the nearest whole number.



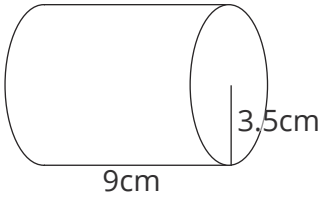
Volume of Cylinders

The volume of the cylinder is $166cm^3$. Calculate its radius (x), giving your answer correct to 1 decimal place.



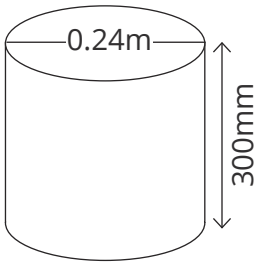
Volume of Cylinders

Calculate the volume of the shape, giving your answer correct to the nearest whole number.



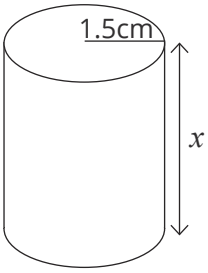
Volume of Cylinders

Calculate the volume of the shape, giving your answer correct to the nearest whole cm^3.



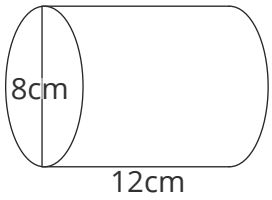
Volume of Cylinders

The volume of the cylinder is $42cm^3$. Calculate its height (x) giving your answer correct to 1 decimal place.



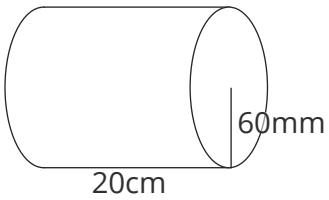
Volume of Cylinders

Calculate the volume of the shape, giving your answer correct to 2 significant figures.



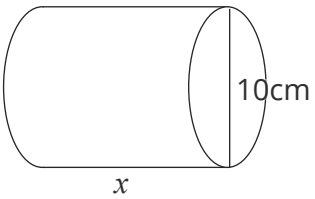
Volume of Cylinders

Calculate the volume of the shape, giving your answer correct to the nearest whole cm^3.



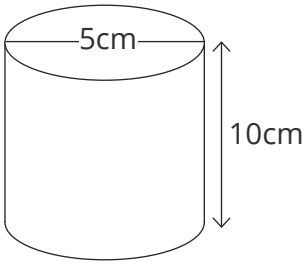
Volume of Cylinders

The volume of the cylinder is $1963cm^3$. Calculate its height (x), giving your answer correct to the nearest whole number.



Volume of Cylinders

Calculate the volume of the shape, giving your answer correct to 1 significant figure.



Volume of Cylinders

The volume of the cylinder is $100cm^3$. Calculate its radius (x), giving your answer correct to 1 decimal place.