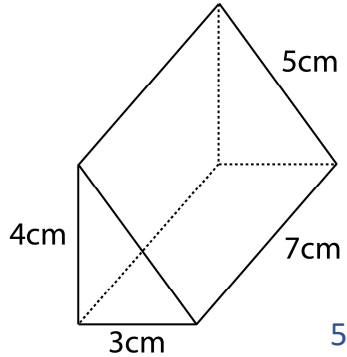




Find the total surface area



5 sides

$$\frac{3 \times 4}{2} = 6$$

$$7 \times 5 = 35$$

$$7 \times 3 = 21$$

$$7 \times 4 = 28$$

$$\frac{3 \times 4}{2} = 6$$

$$6 + 35 + 21 + 28 + 6 = 96$$

$$\text{Surface Area} = 96 \text{ cm}^2$$

For this question use $\pi = 3.14$



The find the volume of a cylinder that has height 10cm and radius 8cm.

$$\begin{aligned} \text{Area of a circle} &= \pi r^2 \\ &= 3.14 \times r \times r \end{aligned}$$

$$\text{radius} = 8$$

$$\text{Area of a circle} = 3.14 \times 8 \times 8 = 200.96$$

$$\text{Volume of Cylinder} = \text{Area of a circle} \times \text{height}$$

$$\text{Volume of Cylinder} = 200.96 \times 10 = 2009.6$$

$$\text{Volume of Cylinder} = 2009.6 \text{ cm}^3$$

Name these shapes.



Cube

Cuboid



Pyramid



Cylinder

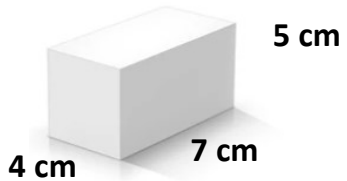


Cone



Sphere

Find the volume of this cuboid



$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

$$\text{Volume} = 4 \times 7 \times 5 = 140$$

$$\text{Volume} = 140 \text{ cm}^3$$

Draw the plan and side and front elevations for this 3D object.

