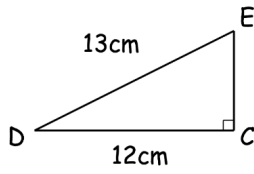
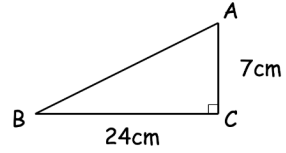


Shown below is a right angled triangle, CDE.



Not to scale



Not drawn accurately

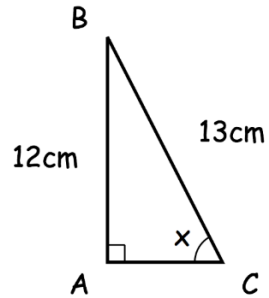
ABC is a right-angled triangle.

AC = 7cm.
BC = 24cm.

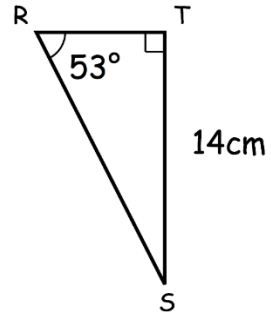
Calculate the length of AB.

Work out the length of CE.

ABC is a right-angled triangle

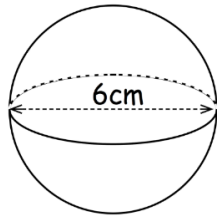


Work out the size of the angle marked x.



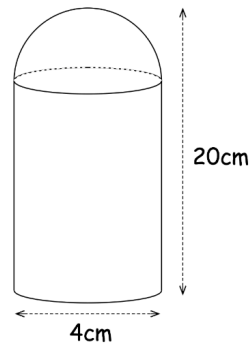
Work out the length of RT.

Shown is a sphere with diameter 6cm.



Calculate the volume of the sphere.
Give your answer in terms of π

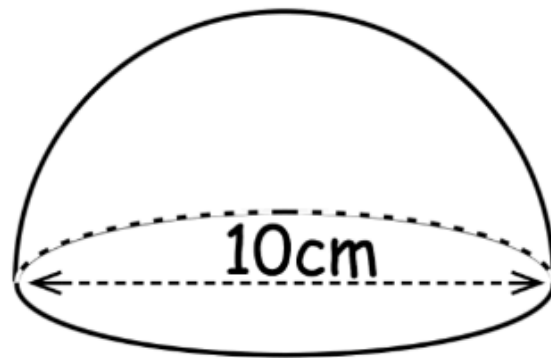
A container is created from a cylinder and a hemisphere.



The height of the container is 20cm.
The diameter of the cylinder is 4cm.

Calculate the volume of the container.

Shown below is a solid glass paperweight.



The paperweight is a hemisphere with diameter 10cm.
The density of the glass is 2.5g/cm^3

Calculate the mass of the paperweight.