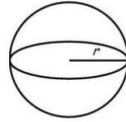


Surface Area

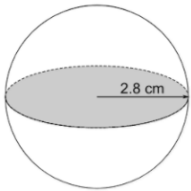
Spheres



$$S.A. = 4\pi r^2$$

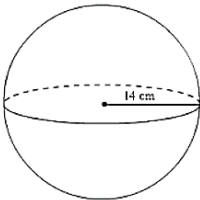
The **surface area** of a sphere is given by the formula $SA = 4\pi r^2$. Similar to the area of a circle but multiplies by 4.

1. Find the surface area of the sphere to the **nearest 10^{th}** .



6. The surface area of a sphere is 100π . Find the radius.

2. Find the surface area of the sphere in terms of π .

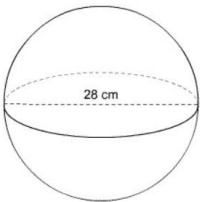


7. Find the surface area to the **nearest 10^{th}** .



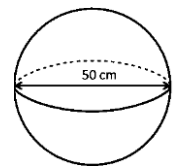
The shape is half of a sphere on top of a cylinder.

3. Find the surface area of the sphere to the **nearest 10^{th}** .



8. The surface area of a sphere is 16π . Find the diameter.

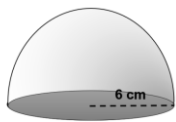
4. Find the surface area of the sphere in terms of π .



9. Find the surface area of the earth assuming it is a sphere with a radius of 6369 kilometers. Round to the nearest whole number.

For fun try and figure out how many **acres** it is!

5. Find the surface area of the hemisphere to the **nearest 10^{th}** .



10. The surface area of a sphere is 36π . Find the **volume**.

Round to the nearest whole number.