

Surface area of spheres and hemispheres

129a

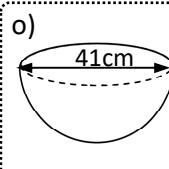
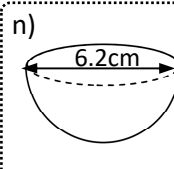
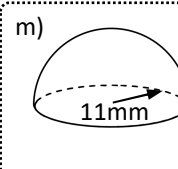
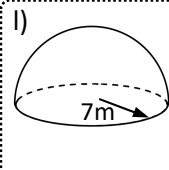
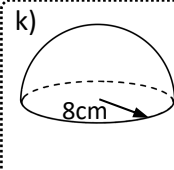
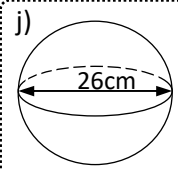
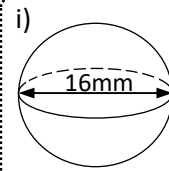
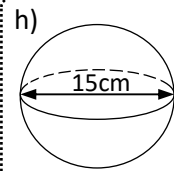
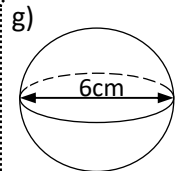
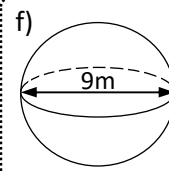
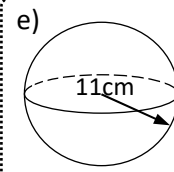
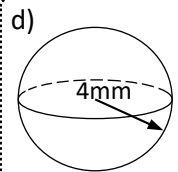
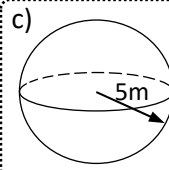
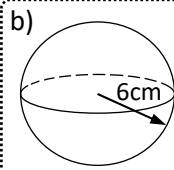
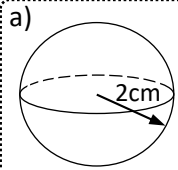


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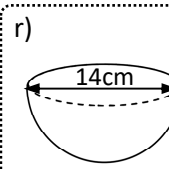
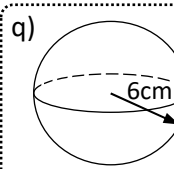
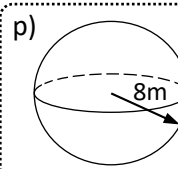
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Calculate the surface area of these spheres / hemispheres (correct to 2 decimal places) **Diagrams not drawn to scale**

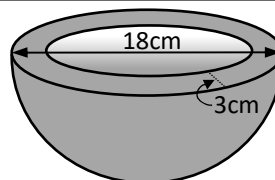


Calculate the surface area of these spheres / hemispheres (leave your answers in terms of π)



Exam question:

A hemispherical bowl has a diameter of 18cm and a rim width of 3cm.
Work out the **total** surface area of the bowl?
Leave your answer in terms of π



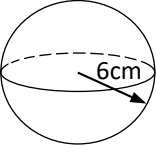
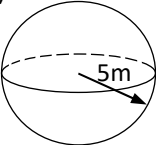
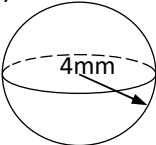
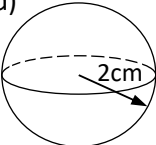
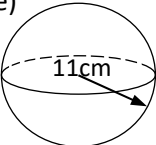
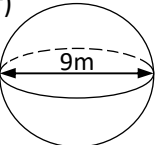
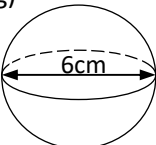
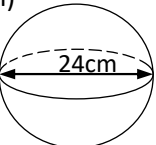
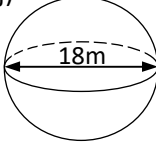
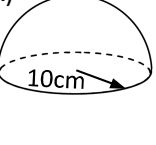
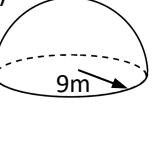
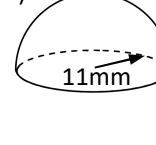
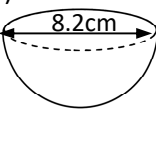
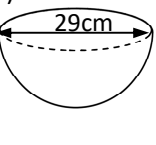


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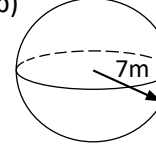
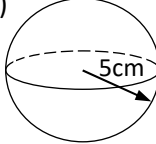
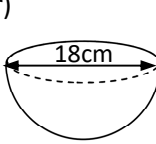


Calculate the volume of these spheres / hemispheres (correct to 2 decimal places)

Diagrams not drawn to scale

a) 	b) 	c) 
d) 	e) 	f) 
g) 	h) 	i) 
j) 	k) 	l) 
m) 	n) 	o) 

Calculate the volume of these spheres / hemispheres (leave your answers in terms of π)

p) 	q) 	r) 
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Exam question:

A hemispherical bowl has a diameter of 20cm and a rim width of 1cm.

The bowl is filled with water.

What is the volume of water in the bowl?

Give your answer correct to 2 significant figures

