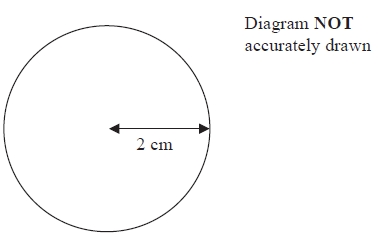
**Density Extension Question**

The diagram shows a solid wooden sphere.

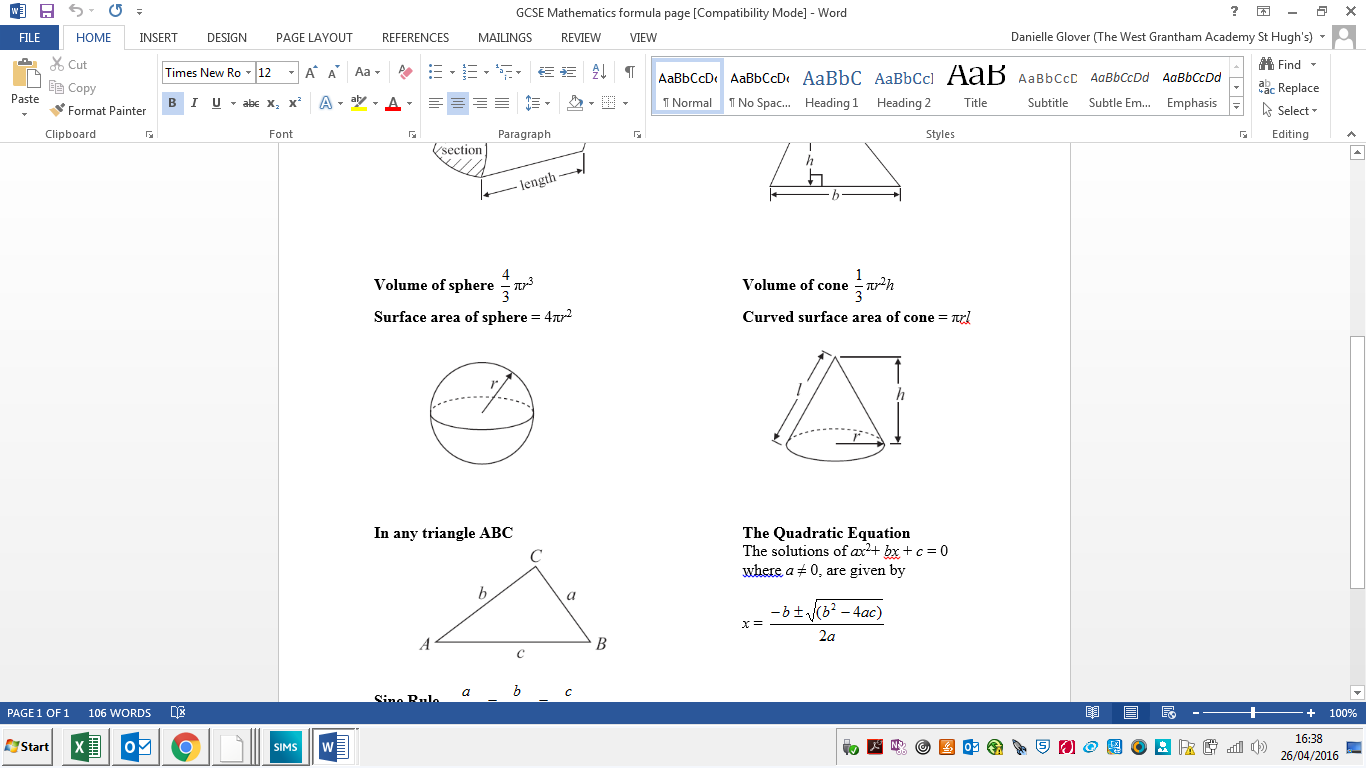


The radius of the sphere is 2 cm.   
The mass of the sphere is 45 grams.

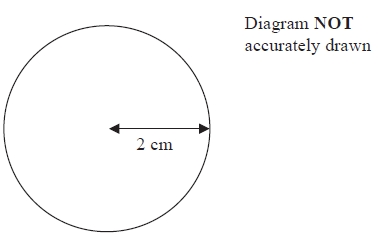
Wood will float on the Dead Sea only when the density of the wood is less than 1.24 g/cm3.

Will this wooden sphere float on the Dead Sea?

**(Total for Question is 4 marks)**

**Density Extension Question**

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**(Total for Question is 4 marks)**