

ACTION

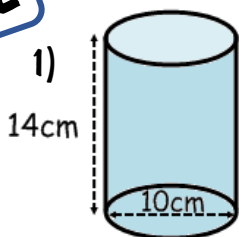
Revision Material



[http://corbettmaths.com/contents/Video 313-315](http://corbettmaths.com/contents/Video%20313-315)

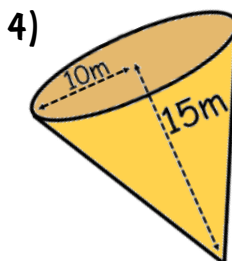
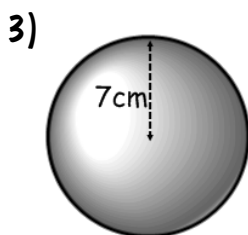
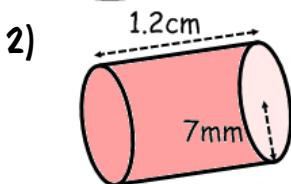
RESPONSE

Fluency



Calculate the surface area, round answers to 2 dp.

Calculate the surface area, give answers in terms of π

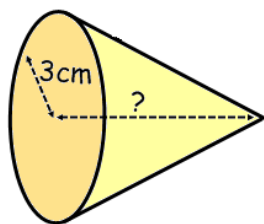


Circumference is 75cm.

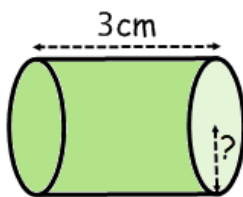
Reasoning



1) Find the missing lengths

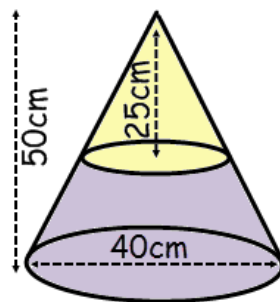


$$SA = 21\pi\text{cm}^2$$



$$SA = 20\pi\text{cm}^2$$

2) A frustum is made by removing a small cone from a similar large cone. Work out the surface area of the frustum in terms of π .

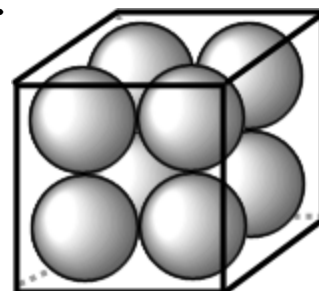


Problem Solving



8 baubles fit perfectly inside a transparent box (touching all faces). The surface area of a bauble is $121\pi\text{cm}^2$.

- Calculate the surface area of the box (including lid).
- What is the ratio, in terms of π , of the surface area of the baubles to the surface area of the box?



ACTION

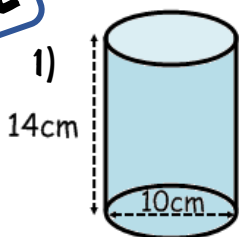
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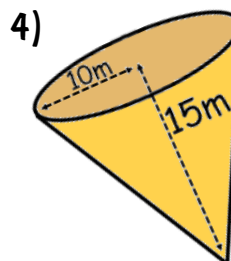
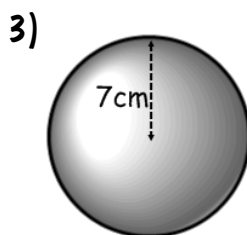
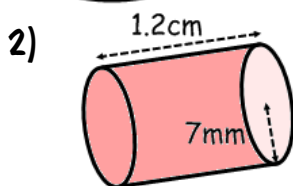
RESPONSE

Fluency



Calculate the surface area, round answers to 2 dp.

Calculate the surface area, give answers in terms of π

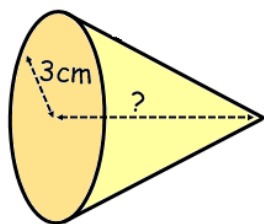


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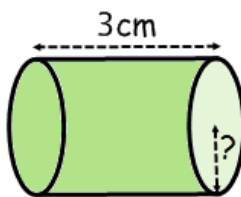
Reasoning



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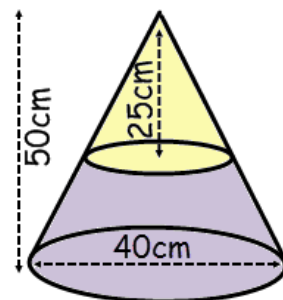


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