

Examples



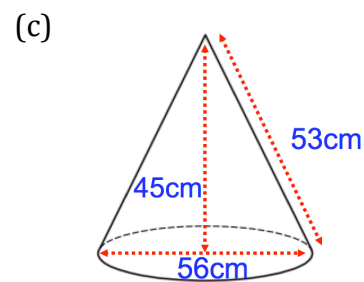
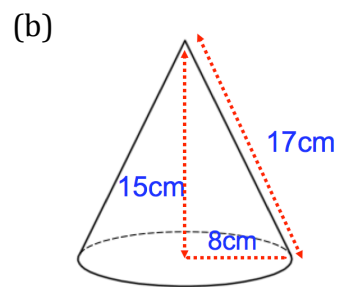
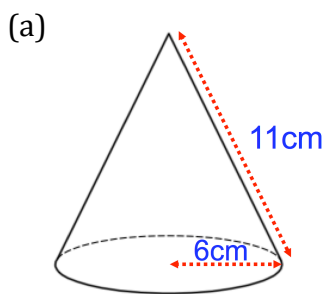
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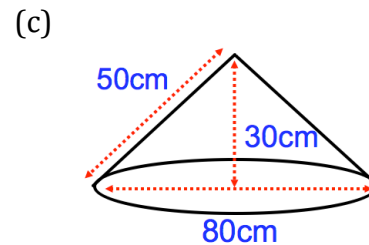
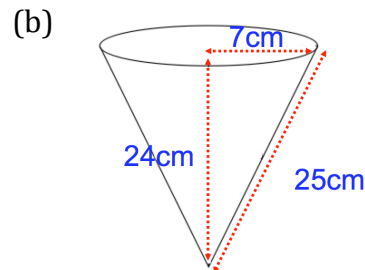
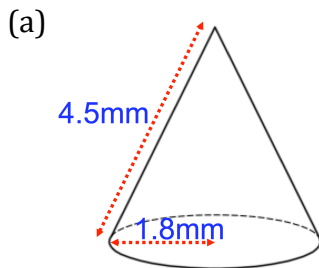
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Workout

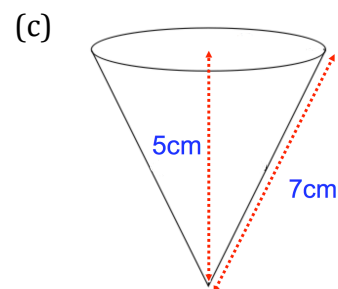
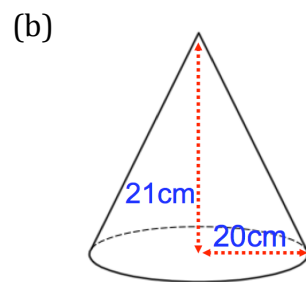
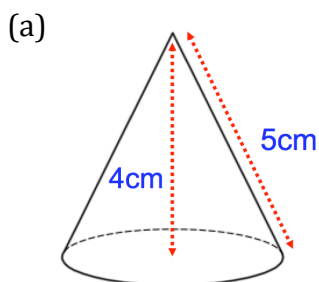
Question 1: Work out the surface areas of each of the following cones.
Give each answer in terms of π



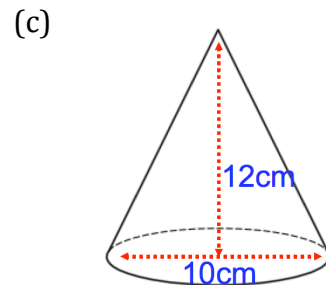
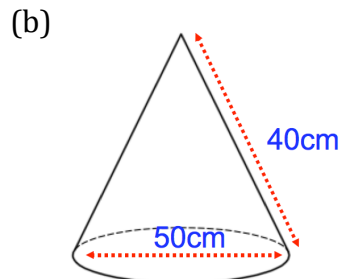
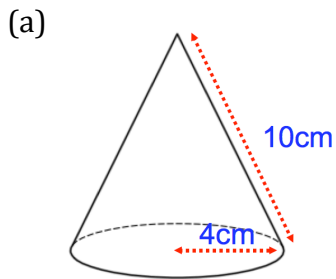
Question 2: Work out the surface areas of each of the following cones.
Give each answer to one decimal place.



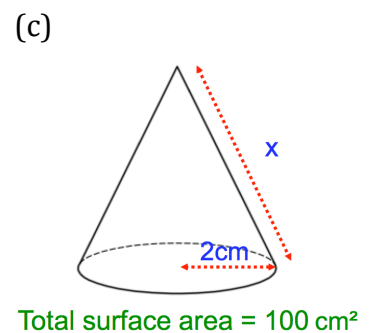
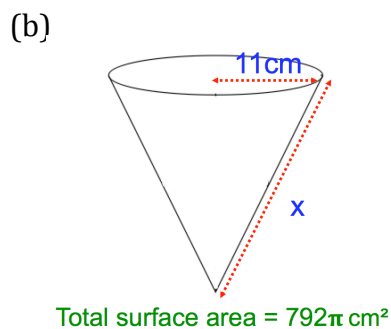
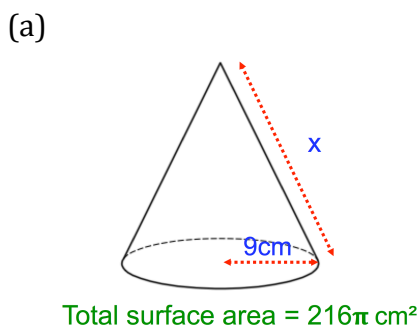
Question 3: Work out the surface areas of each of the following cones.
Give each answer to one decimal place.



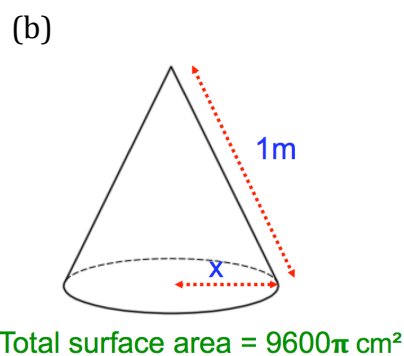
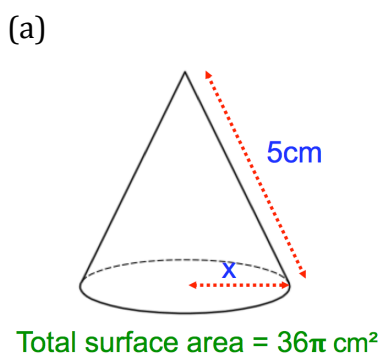
Question 4: Work out the surface area of each of the following cones.
Give each answer in terms of π



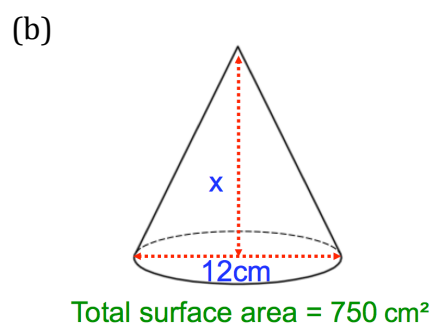
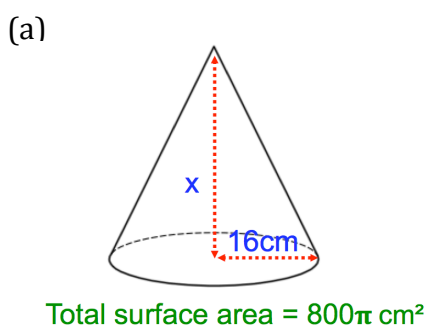
Question 5: Calculate the slant height for each of these cones



Question 6: Calculate the lengths of the radius for each of these cones

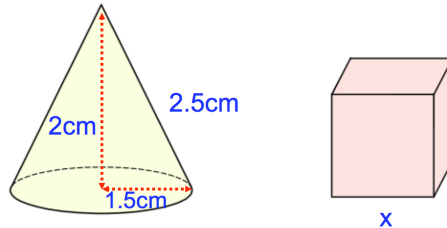


Question 7: Calculate the heights of these cones

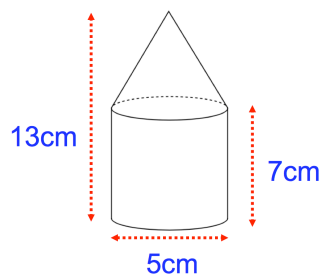


Apply

Question 1: The cone and cube below have the same surface areas.
Work out the side length of the cube, x .

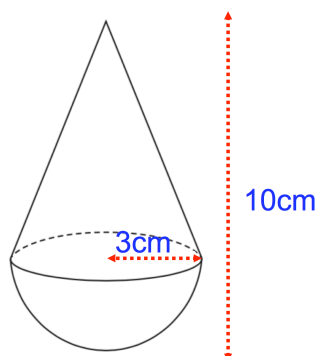


Question 2: The diagram shows a solid shape.
The shape is a cone on top of a cylinder.
Work out the surface area of the shape.
Give your answer correct to 2 significant figures



Question 3: A cone has a radius of 9cm.
The surface area of the cone is $450\pi \text{ cm}^2$
Work out the volume of the cone.
Give your answer in terms of π

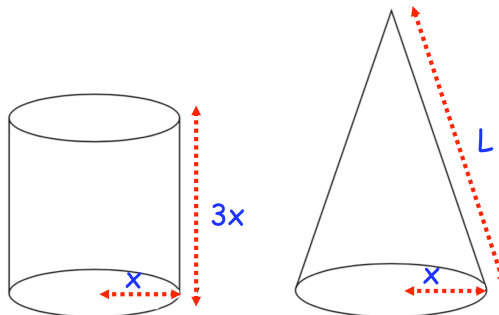
Question 4: The diagram shows a solid shape.
The shape is a cone on top of a hemisphere.
Work out the surface area of the shape.
Give your answer correct to 2 significant figures



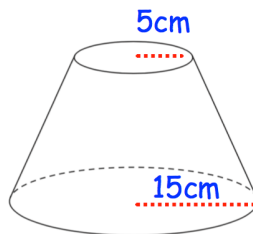
Surface Area of a Cone

Video 314 on www.corbettmaths.com

Question 5: The cylinder and cone has the same surface area.
Express L in terms of x .

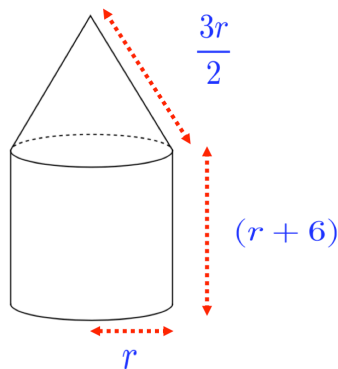


Question 6: A frustum is made from cutting a small cone from the top of a larger cone.
The larger cone was 21cm tall.



Calculate the surface area of the frustum

Question 7: A cone and cylinder are joined to make a solid.



Show the total surface area of the solid is $\frac{3\pi r}{2}(3r + 8)$

Answers



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