Maths

Surface area problems



Surface area problems

1. Calculate the area of the label on this can of beans to 3 significant figures.

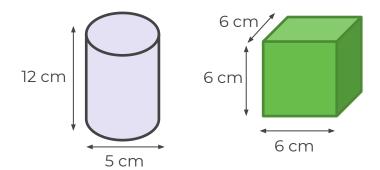
BEANS 13 cm

2. The cylinder below is wrapped in wrapping paper. Assuming no overlap of paper, what is the area of the wrapping paper to 3 significant figures?

25 cm

14 cm

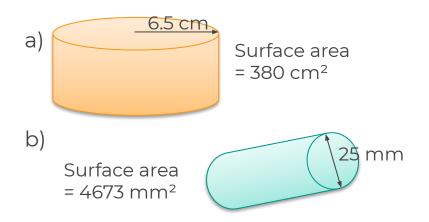
3. Which of these shapes, cube or cylinder, has the largest surface area? Show working to justify your answer.





Surface Area Problems

4. Find the height of each of these cylinders to 3 significant figures.



5. Find the surface area of this semi-circular prism to 3 significant figures.

O.8 m

 $0.28 \, \text{m}$

Area of curved rectangle = $_{m^2}$ Area of 2 semicircles = $_{m^2}$ Area of flat rectangle = $_{m^2}$ Total area = $_{m^2}$ (3sf)



Answers



Surface area problems

1. Calculate the area of the label on this can of beans to 3 significant figures.

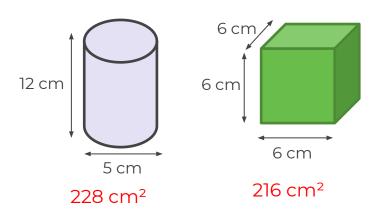
13 cm 368 cm²

2. The cylinder below is wrapped in wrapping paper. Assuming no overlap of paper, what is the area of the wrapping paper to 3 significant figures?

25 cm

1410 cm

3. Which of these shapes, cube or cylinder, has the largest surface area? Show working to justify your answer.

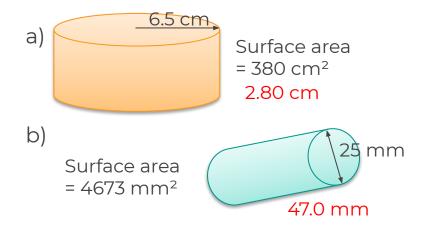


The cylinder has the largest surface area.



Surface Area Problems

4. Find the height of each of these cylinders to 3 significant figures.



5. Find the surface area of this semi-circular prism to 3 significant figures.

O.8 m

 $0.28 \, \text{m}$

Area of curved rectangle = 0.352 m² Area of 2 semicircles = 0.0616 m² Area of flat rectangle = 0.224 m² Total area = 0.637 m² (3sf)

