## Surface area problems

Miss Parnham

## Surface area problems

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

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?

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.
a)

b)

## Surface area

 $=4673 \mathrm{~mm}^{2}$5. Find the surface area of this semi-circular prism to 3 significant figures.


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

Answers

## Surface area problems

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

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?

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

$228 \mathrm{~cm}^{2}$
The cylinder has the largest surface area.

## Surface Area Problems

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

b)

Surface area $=4673 \mathrm{~mm}^{2}$

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


Area of curved rectangle $=\underline{0.352} \mathrm{~m}^{2}$
Area of 2 semicircles $=\underline{0.0616} \mathrm{~m}^{2}$
Area of flat rectangle $=0.224 \mathrm{~m}^{2}$
Total area $=0.637 \mathrm{~m}^{2}(3 \mathrm{sf})$

