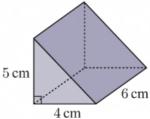
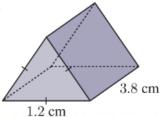
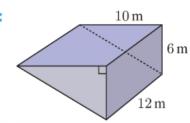
2 Find the surface area of each triangular prism:

a



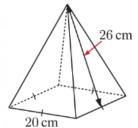
b



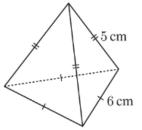


4 Find the surface area of each pyramid:

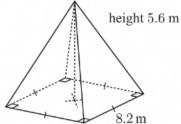
a



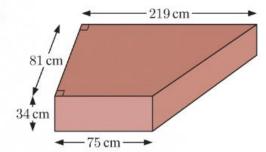
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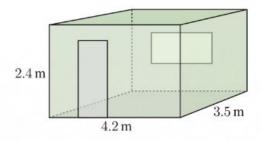


5



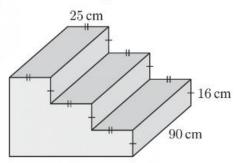
A harpsichord case has the dimensions shown.

- a Find the total area of the top and bottom surfaces.
- **b** Find the area of each side of the case.
- If the timber costs €128 per square metre, find the value of the timber used to construct this case.
- 6 The walls and ceiling of this room need to be painted with two coats of paint. The door is 0.8 m by 2.2 m and the window is 183 cm by 91 cm. The door also has to be stained on *both* sides with two coats of stain. Use the following table to calculate the total cost of the stain and paint:

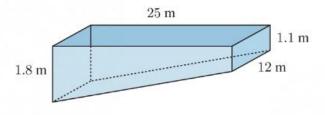


Type of paint	Size	Area covered	Cost per tin
wall paint	4 litres	16 m ²	\$32.45
	2 litres	8 m ²	\$20.80
wood stain	2 litres	10 m^2	\$23.60
(for doors)	1 litre	5 m^2	\$15.40

- 7 Find the surface area of:
 - a this set of steps

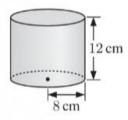


b the sides and base of this swimming pool.

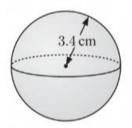


1 Find, to 1 decimal place, the outer surface area of:

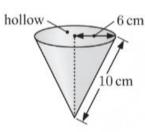
a



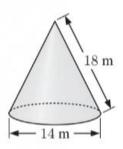
b



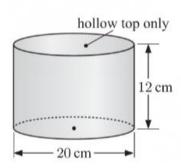
C



d



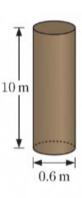
e



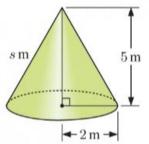
f



- 4 A new wharf has 24 cylindrical concrete pylons, each with diameter 0.6 m and length 10 m. The pylons will be coated with a salt resistant material.
 - a Find the total surface area of one pylon.
 - b Coating the pylons with the material costs \$45.50 per m². Find the cost of coating one pylon.
 - Find the total cost of coating the 24 pylons, to the nearest dollar.

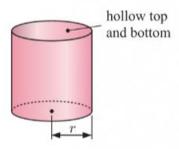


5



A conical tent has base radius 2 m and height 5 m.

- a Find the slant height s, to 2 decimal places.
- **b** Find the area of canvas necessary to make the tent, including the base.
- c If canvas costs \$18 per m², find the cost of the canvas.
- 7 The height of a hollow cylinder is the same as its diameter.
 - Write an expression for the outer surface area of the cylinder in terms of its radius r.
 - **b** Find the height of the cylinder if its surface area is 91.6 m².



- 8 The slant height of a hollow cone is three times its radius.
 - Write an expression for the outer surface area of the cone in terms of its radius r.
 - **b** Given that the surface area is 21.2 cm², find the cone's:
 - slant height

ii height.

