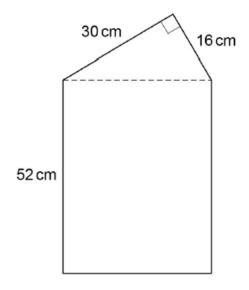
AQA - Mensuration and calculations - GCSE 2022 Mathematics

1. June/2023/Paper_8300/2F/No.27

A shape is made by joining a right-angled triangle to a rectangle.



Not drawn accurately

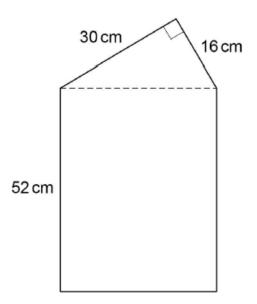
 $\,\mathrm{cm}^2$

Work out the area of the shape.	[5 marks]

Answer

2. June/2023/Paper_8300/2H/No.11

A shape is made by joining a right-angled triangle to a rectangle.



Not drawn accurately

Work out the area of the shape.	[5 marks]

Answer

3. June/2023/Paper_8300/2H/No.13

Outside a cafe there is a large plastic ice cream cornet.

The cornet is a hemisphere on top of a cone.



The cone and the hemisphere each have radius 24 cm

The cone has perpendicular height 117 cm

Volume of a cone = $\frac{1}{3} \pi r^2 h$

r is the radius

h is the perpendicular height

Volume of a hemisphere = $\frac{2}{3} \pi r^3$

r is the radius

(a) Work out the total volume of the cornet.
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[4 marks]

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(b)	The actual cornets that the cafe sells are similar to the plastic one. For the actual cornets, the cone and the hemisphere each have radius 2 cm		
	How many times greater is the volume of the plastic cornet than an actual cornet?		
	[3 marks]		
	Answer		

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June/2023/Paper_8300/2H/No.27	
To be rented, a bedroom must have a floor area of at least $6.51\mathrm{m}^2$	
A bedroom has a rectangular floor.	
The floor measures 2.4 m by 2.9 m, each correct to 2 significant figures.	
Show that the bedroom can be rented.	[3 marks