# MME

### GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

## Surface Area of 3D Shapes

Please write clearly in block capitals

Forename:

Surname:

#### Materials

For this paper you must have:

mathematical instruments

You *can* use a calculator.



#### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

#### Information

- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

#### Advice

· In all calculations, show clearly how you work out your answer.







	Not drawn accurately	
	9 cm 4 cm	
(	Calculate the total surface area of the cone.	
(	Give your answer to 2 decimal places	[3 mar
_		
_		
_		
_		
	Answer cm <sup>2</sup>	

The diagram below above a orbert	
The diagram below shows a sphere. The radius of the sphere is 5 cm.	
S cm Not drawn accurately	
Using the equation, $A = 4\pi r^2$ to calculate the surface area of the sphere. Give your answer to 2 decimal places.	[2 marks
	-
Answer cm <sup>2</sup>	-
Turn over for next question	



