

## GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 4 - 7)

# **Circles Sectors and Arcs**

Please write clearly in block capitals

Forename:

Surname:

#### Materials

For this paper you must have:

mathematical instruments

You *can* use a calculator.



### Instructions

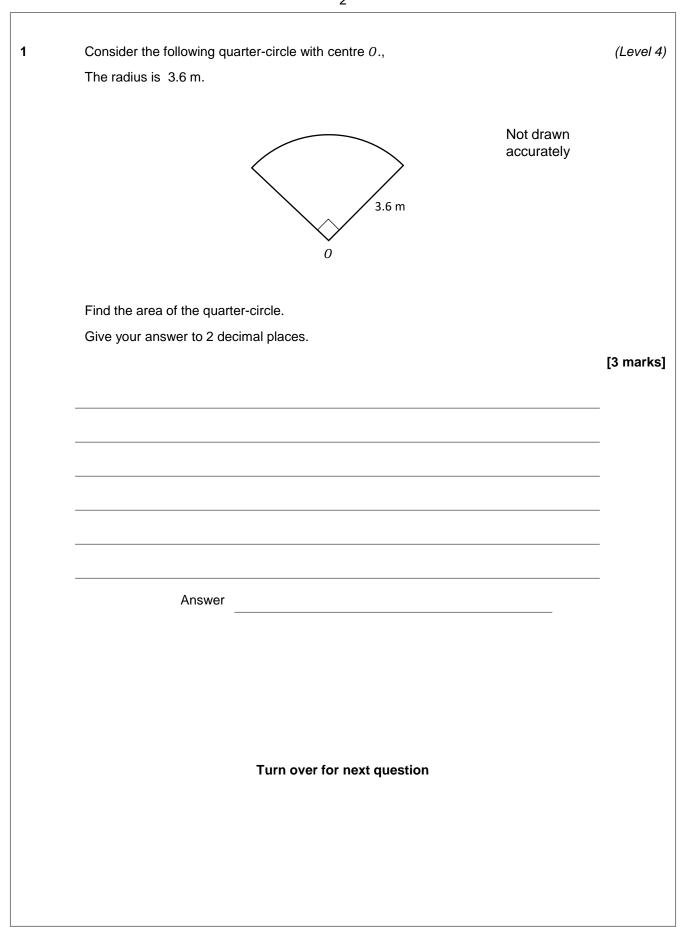
- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through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

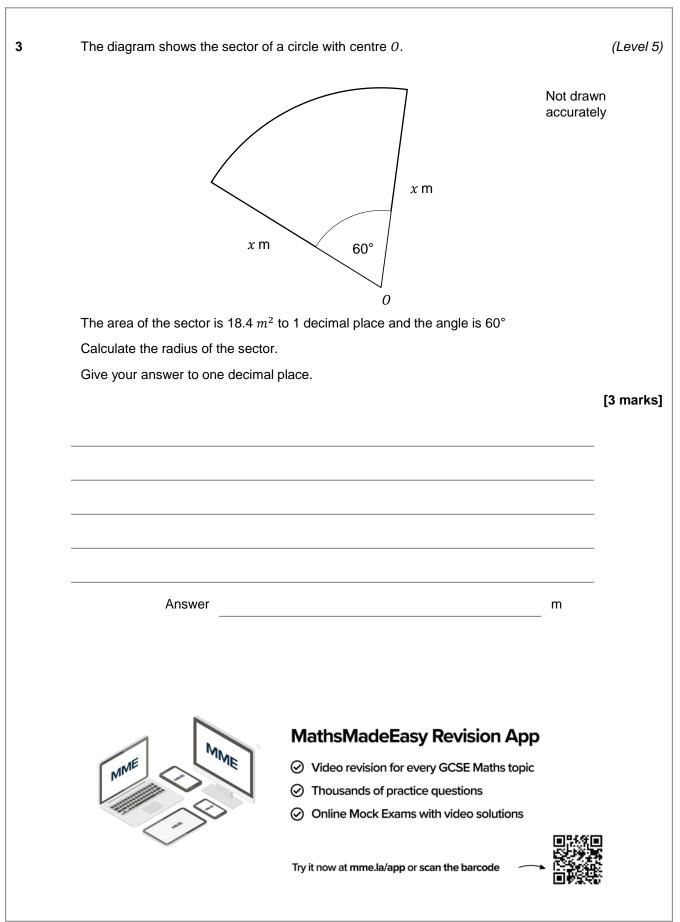
### Advice

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

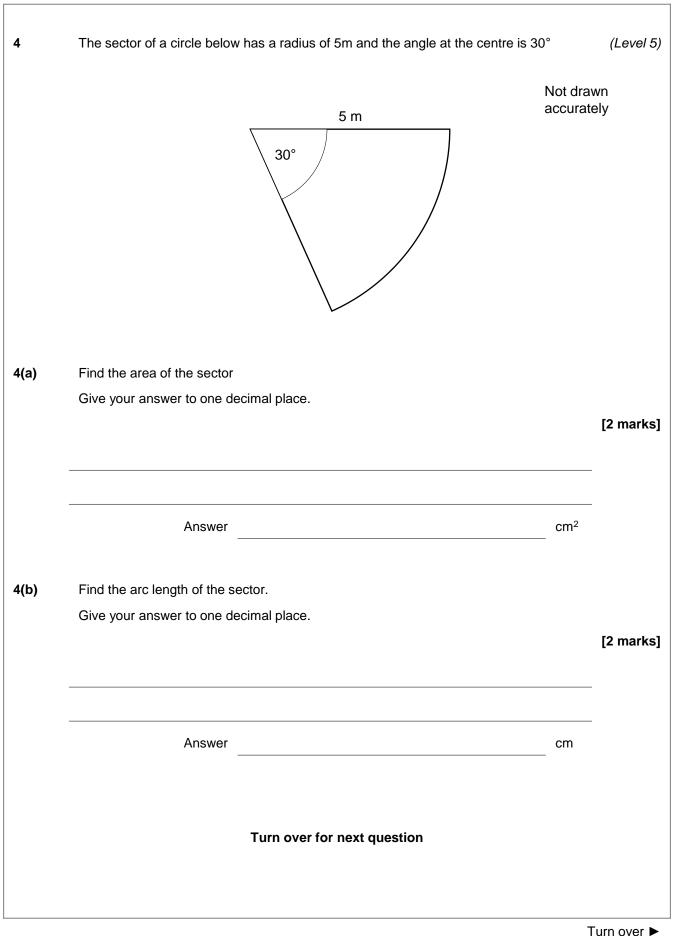


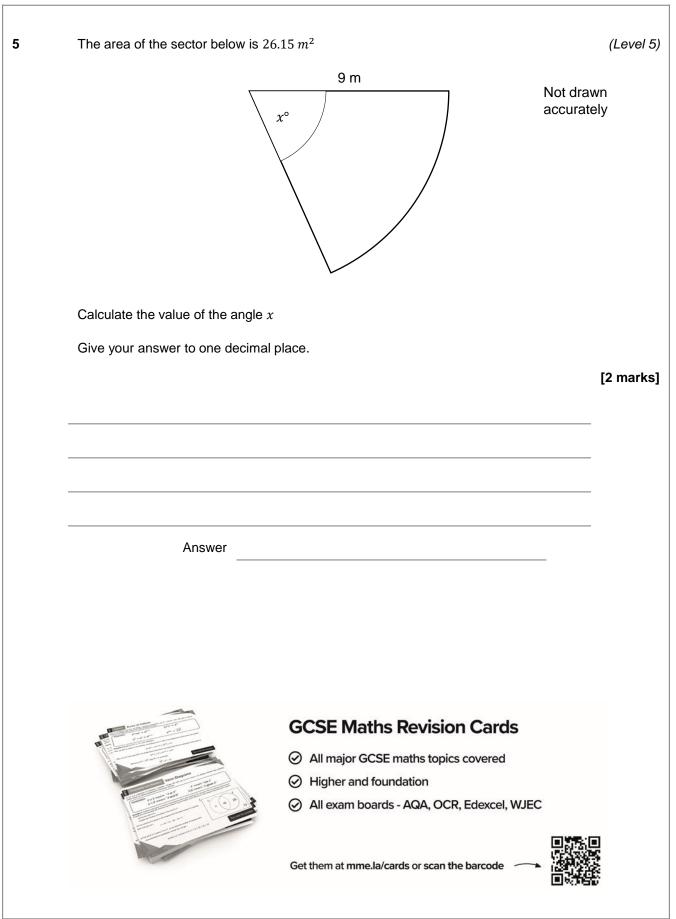
Turn over ►

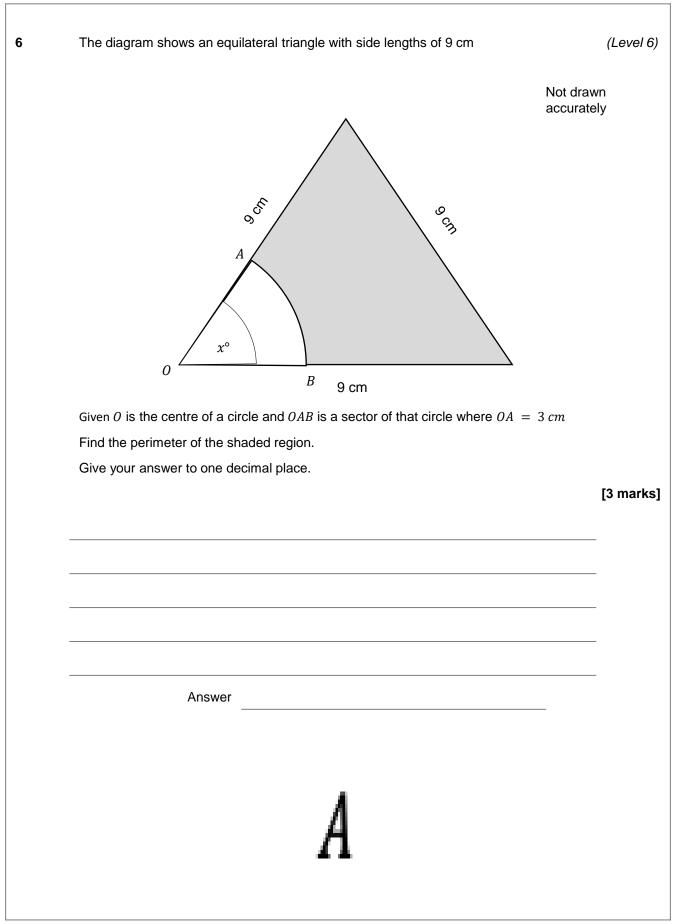
2	The diagram shows the sector of a circle with centre 0	(Level 4)
	5 m 50° 0	Not drawn accurately
	The radius of the circle is 5 m and the angle of the sector is $50^\circ$	
	Calculate the area of the sector.	
	Give your answer to one decimal place.	
		[3 marks]
	Answer	_
	Turn over for next question	











OAB is a circle segment of radius 8 $cm$	(Lev
<i>0</i> is a circle of radius 4 <i>cm</i>	
A	Not drawn accurately
Calculate the total area of the shape shown above. Give your answer to one decimal place.	[3 ma
Answer	
End of questions	