

## 1MA1 Foundation themed papers: Circles – Label

Write your name here	
Surname	Other names
Centre Number	Candidate Number
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<b>Pearson Edexcel</b> Level 1/Level 2 GCSE (9–1)	
<b>Mathematics</b> <b>Circles – Label</b>	
<b>Foundation Tier</b>	Paper Reference <b>1MA1</b>
<b>You must have:</b> Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.	Total Marks
	<input type="text"/>

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

### Information

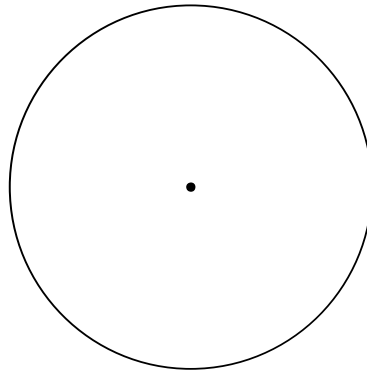
- The total mark for this paper is **7**. There are **4** questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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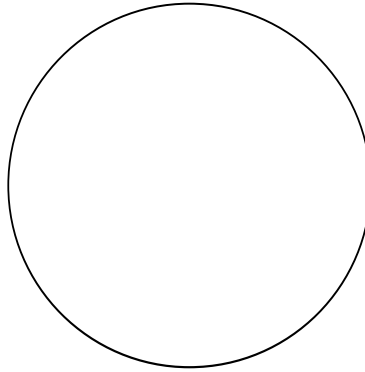
**1**



(a) On the diagram above, draw a diameter of the circle.

**(1)**

(b) On the diagram below, draw a segment of the circle.  
Shade the segment.



**(1)**

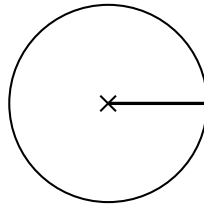
**(Total for Question 1 is 2 marks)**

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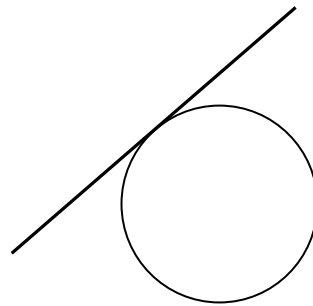
**2** The centre of this circle is marked with a cross ( $\times$ ).



(a) Write down the mathematical name of the straight line shown in the circle.

.....  
**(1)**

(b) Write down the mathematical name of the straight line that is touching the circle.

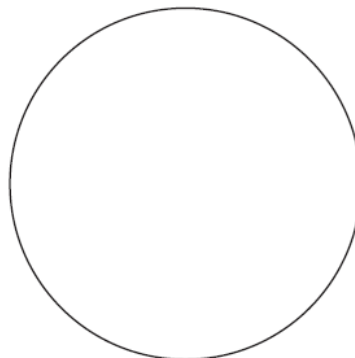


.....  
**(1)**

**(Total for Question 2 is 2 marks)**

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**3** Draw a chord of this circle.



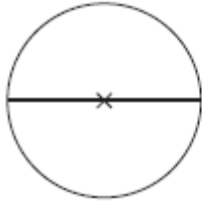
**(Total for Question 3 is 1 mark)**

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- 4 Here are four circles and four straight lines.  
Each circle has its centre marked with a cross (X).

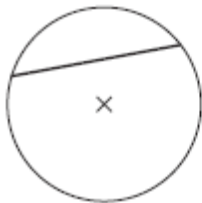
Draw an arrow from each straight line to its mathematical name.



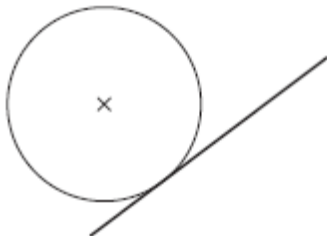
Radius



Chord



Tangent



Diameter

(Total for Question 4 is 2 marks)

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**TOTAL MARKS FOR PAPER: 7**