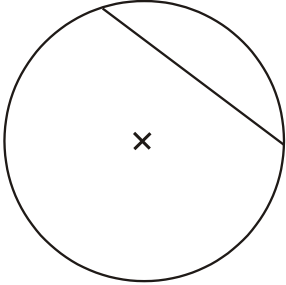
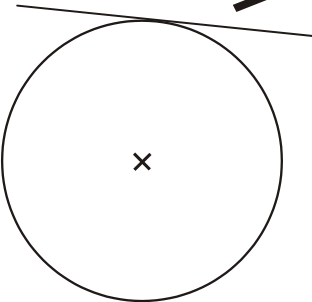
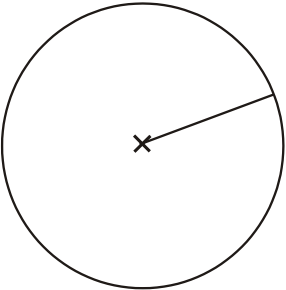
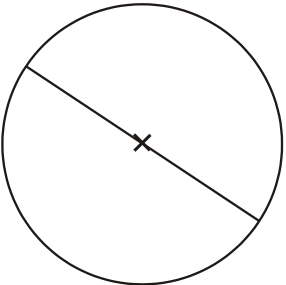
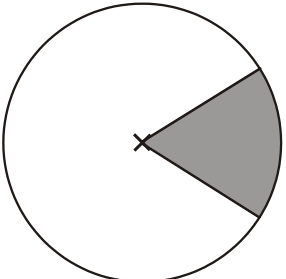


1. Here are 5 diagrams and 5 labels.  
In each diagram the centre of the circle is marked with a cross (×).

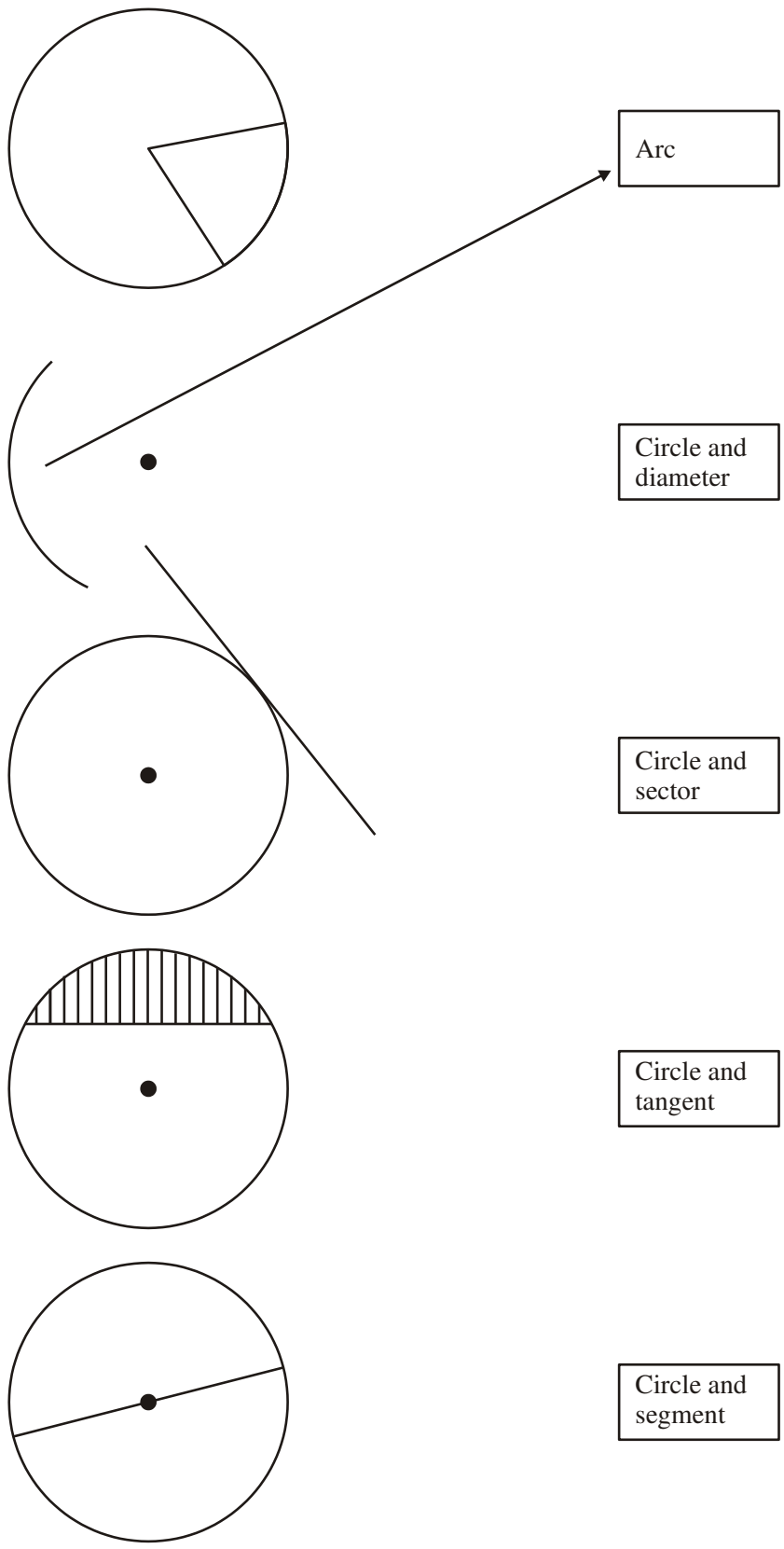
Match each diagram to its label.  
One has been done for you.

Diagram	Label
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Circle and tangent</div>
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Circle and radius</div>
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Circle and chord</div>
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Circle and sector</div>
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Circle and diameter</div>

**(3 marks)**

2. Here are some diagrams relating to a circle.

Draw an arrow from each of the diagrams to its mathematical name.  
The arrow showing an arc is drawn for you.



**(3 marks)**

3. The radius of a circle is 3.60 m.

Work out the area of the circle.

Give your answer correct to 3 significant figures.

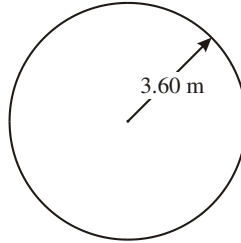


Diagram NOT  
accurately drawn

.....

**(3 marks)**

4. The diameter of a wheel on Harry's bicycle is 0.65 m.

Calculate the circumference of the wheel.

Give your answer correct to 2 decimal places.

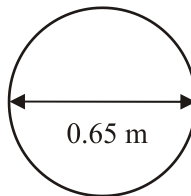


Diagram NOT  
accurately drawn

.....

**(3 marks)**

- 5.

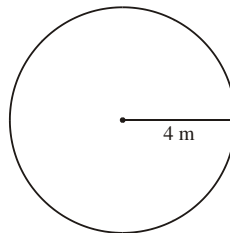


Diagram NOT  
accurately drawn

The radius of a circle is 4 m.

Work out the area of the circle.

Give your answer correct to 3 significant figures.

.....

**(3 marks)**

6. A circle has a radius of 6.1 cm.  
Work out the circumference of the circle.

Give your answer correct to 3 significant figures.

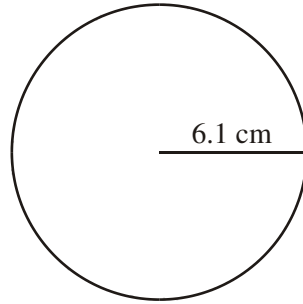


Diagram **NOT**  
accurately drawn

.....

**(3 marks)**

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7. The radius of a circle is 6.4 cm.

Work out the circumference of this circle.

Give your answer correct to 1 decimal place.

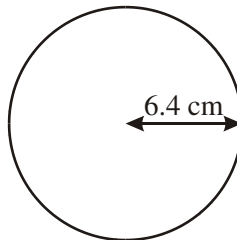


Diagram **NOT**  
accurately drawn

.....

**(3 marks)**

---

- 8.

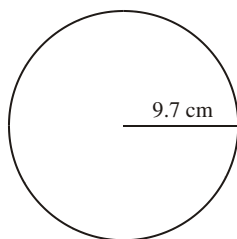


Diagram **NOT**  
accurately drawn

The radius of the circle is 9.7 cm.  
Work out the area of the circle.  
Give your answer to 3 significant figures.

.....

**(3 marks)**

---

9. The diameter of a circle is 12 centimetres.
- (a) Work out the circumference of the circle.  
Give your answer, in centimetres, correct to 1 decimal place.

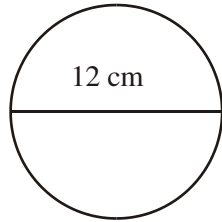


Diagram **NOT**  
drawn accurately

.....

**(3 marks)**

10. Here is a tile in the shape of a semicircle.

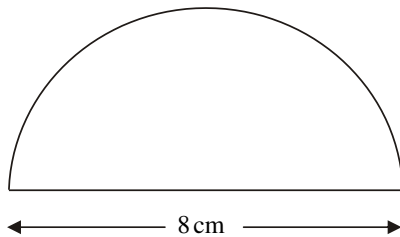


Diagram **NOT**  
accurately drawn

The diameter of the semicircle is 8 cm.

Work out the perimeter of the tile.  
Give your answer correct to 2 decimal places.

..... cm

**(3 marks)**

- 11.

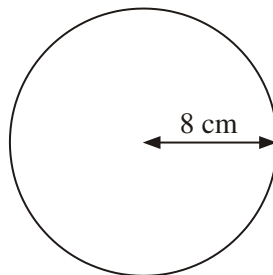


Diagram **NOT**  
accurately drawn

The radius of this circle is 8 cm.

Work out the circumference of the circle.  
Give your answer correct to 2 decimal places.

..... cm

**(3 marks)**

12.

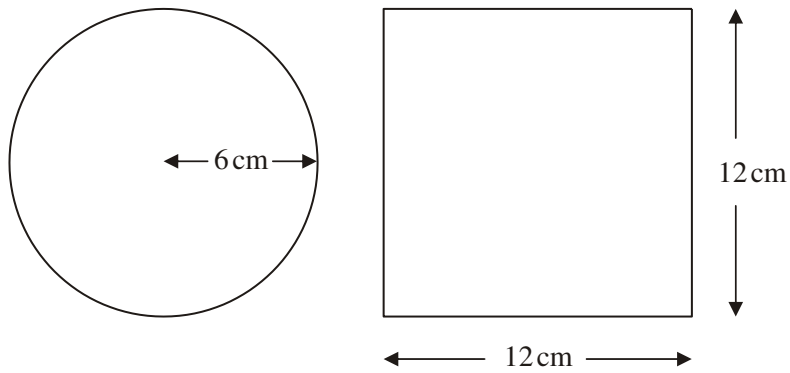


Diagram **NOT** accurately drawn

A circle has a radius of 6 cm.

A square has a side of length 12 cm.

Work out the difference between the area of the circle and the area of the square.  
Give your answer correct to one decimal place.

.....

**(4 marks)**

13. The top of a table is a circle.  
The radius of the top of the table is 50 cm.



- (a) Work out the area of the top of the table.

.....cm<sup>2</sup>

**(2)**

The base of the table is a circle.  
The diameter of the base of the table is 40 cm.

- (b) Work out the circumference of the base of the table.

.....cm

**(2)**

**(4 marks)**

14.

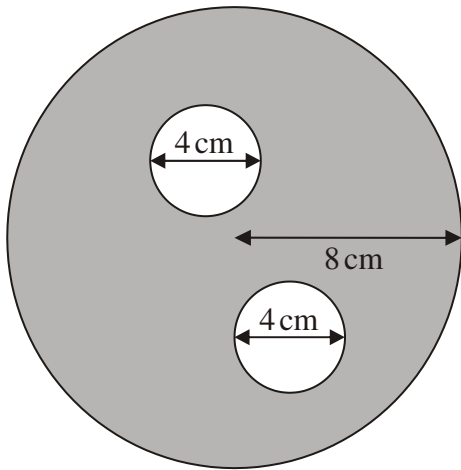


Diagram **NOT** accurately drawn

The diagram shows two small circles inside a large circle.  
The large circle has a radius of 8 cm.

Each of the two small circles has a diameter of 4 cm.

(a) Write down the radius of each of the small circles.

..... cm

**(1)**

(b) Work out the area of the region shown shaded in the diagram.  
Give your answer correct to one decimal place.

..... cm<sup>2</sup>

**(4)**

**(5 marks)**

