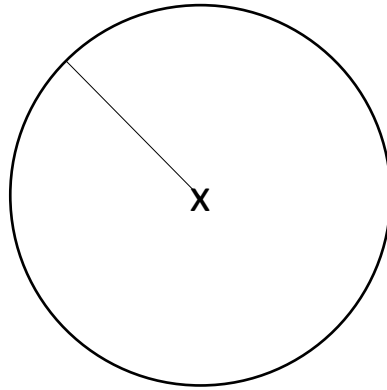**2**   Consider the following circle with centre at X and radius of 3.7m.   *(Level 3)*

Not drawn
accurately

2(a)   Find the diameter of this circle.

[1 mark]

_____

_____

Answer   _____

2(b)   Find the circumference of this circle to 2 decimal places.

[2 marks]

_____

_____

_____

Answer   _____

3

3   The circle below has centre O and radius 3.6 cm   *(Level 4)*

Not drawn
accurately
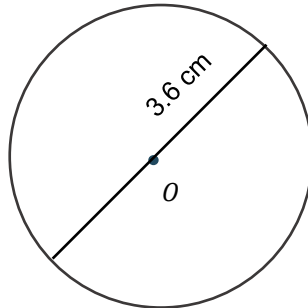
3(a)   Find the circumference of the circle, giving your answer in terms of π.

[2 marks]

Answer _____

3(b)   Find the area of the circle.
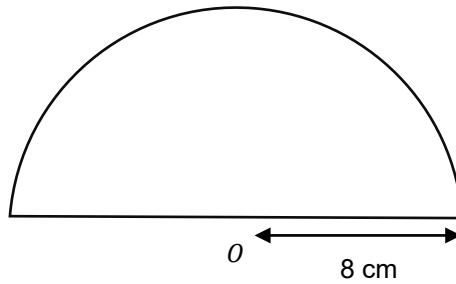
Give your answer to 1 decimal place.

[2 marks]

Answer _____ cm^2

Turn over for next question

4

Turn over ▶

4   The semi-circle below has centre *O* and a radius of 8 cm   *(Level 4)*

Not drawn
accurately

O   8 cm

Find the perimeter of the semi-circle.

Give your answer to 1 decimal place.

[3 marks]

Answer _____

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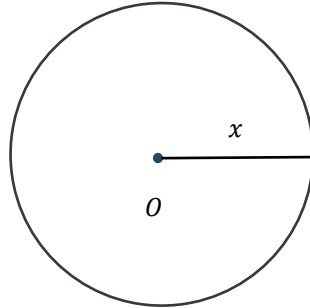
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3

Turn over ▶

5   The circle below has centre O and a radius of x cm   *(Level 5)*

Not drawn
accurately

The area of the circle is 150 cm^2

Find the value of x.

Give your answer to 1 decimal place.
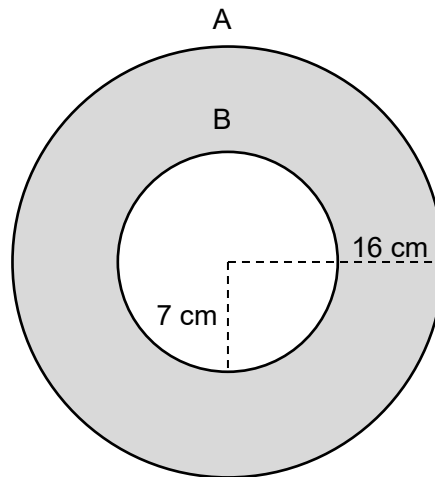
[3 marks]

_____

_____

_____

_____

Answer   _____

Turn over for next question

3

Turn over ▶

6   Circle A has a radius of 16 cm   *(Level 5)*

Circle B has a radius of 7 cm

A

B

Not drawn
accurately

16 cm

7 cm

6(a)   Calculate the area of circle A. Give your answer in terms of π

[1 mark]

Answer _____ cm²

6(b)   Calculate the shaded area.

[2 marks]

Answer _____ cm²

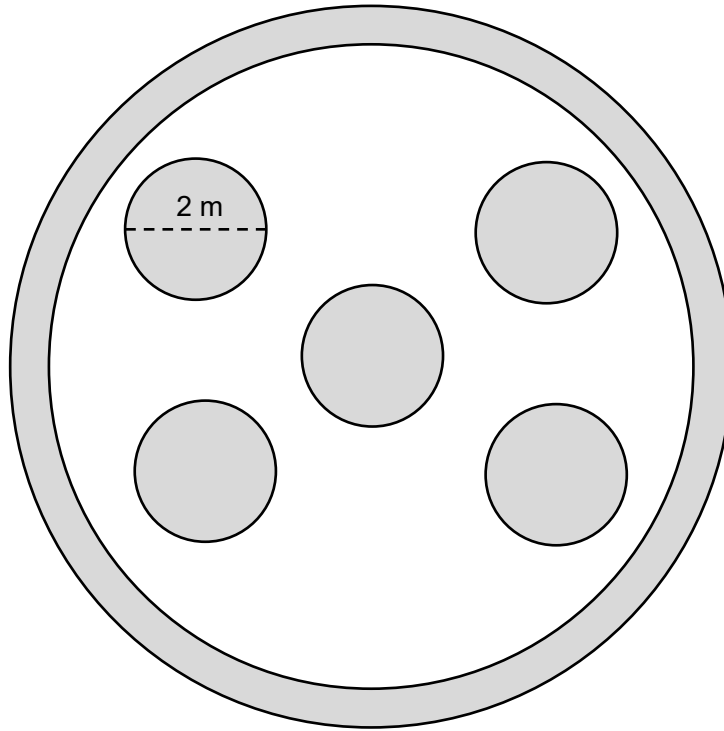**Turn over for next question**

3

Turn over ▶

7 The largest circle in the diagram below has a radius of 10m

(Level 5)

The radius of the white circle is 7m

Each small grey circle has a diameter of 2m

Not drawn
accurately

2 m

What percentage of the area in the diagram is shaded?

[4 marks]

Answer _____ %

Turn over for next question

4

Turn over ▶

8   A set of circles have radii in the ratio $1 : 2 : 3 : 5$ *(Level 6)*

What is the ratio of their areas?

Give your answer in its simplest terms.

[2 marks]

Answer _____

2

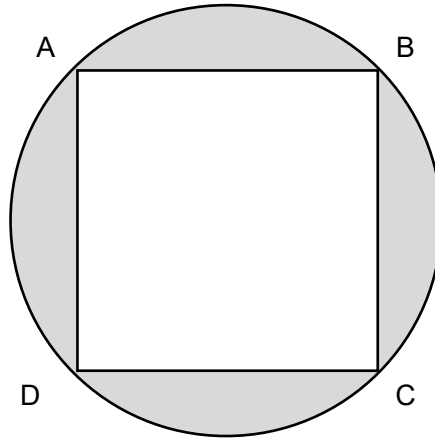Turn over ►

9   The diagram below shows a square inside a circle.   *(Level 7)*

The vertices of the square touch the circumference of the circle.

The radius of the circle below is 6cm.

Not drawn accurately

9(a)   Calculate the area of the square, ABCD

[3 marks]

_____

_____

Answer _____ cm^2

9(b)   Calculate the shaded area between the circle and the square.

Give your answer in terms of π

[2 marks]

_____

_____

_____

Answer _____ cm^2

Turn over for next question

5

END

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