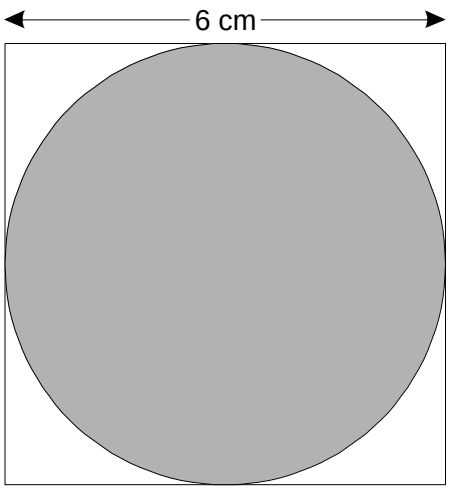
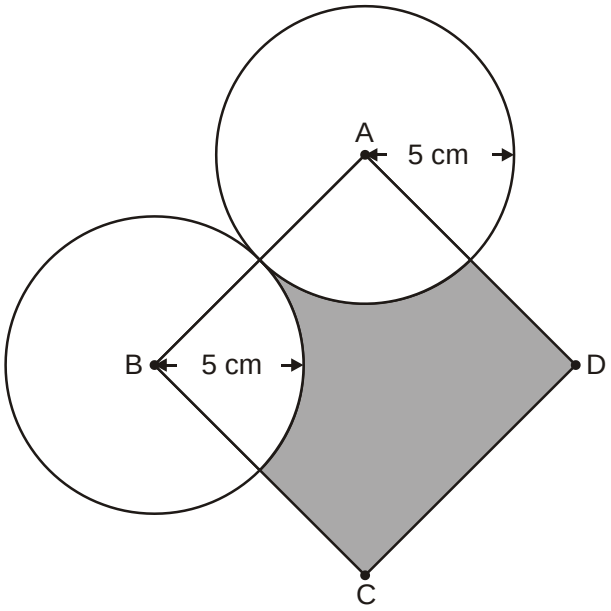
Name: _____ Date: _____

Circles Extra Practice

1) Find the shaded area



2) The diagram shows two circles and a square, ABCD. A and B are the centres of the circles. The radius of each circle is **5 cm**.
Calculate the area of the **shaded part** of the square.



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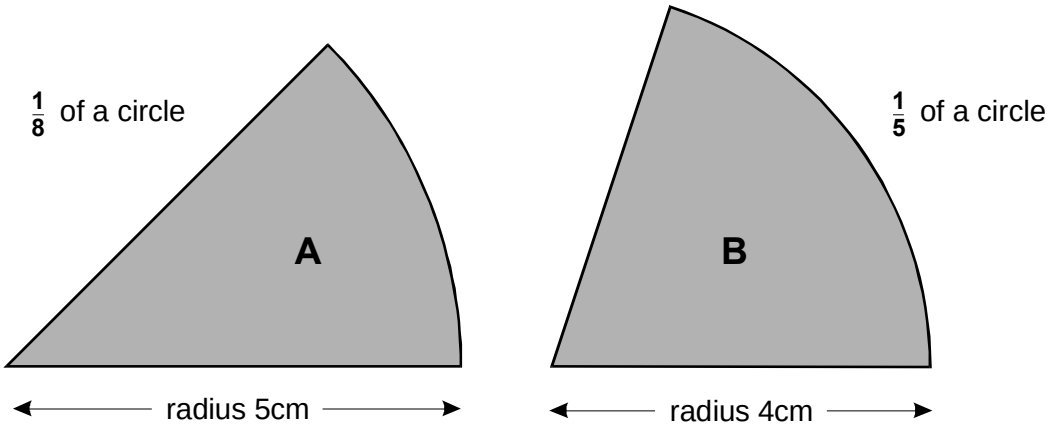
3) Which is Bigger?

The diagram shows parts of two circles, sector A and sector B



(a) Which sector has the **bigger area**?

Show working to explain your answer.

(b) The perimeter of a sector is made from two straight lines and an arc.

Which sector has the **bigger perimeter**?

Show working to explain your answer.

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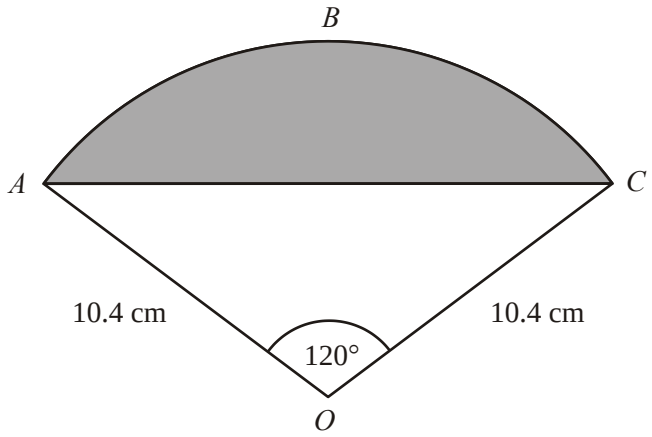
4)



The diagram shows a sector *OABC* of a circle with centre *O.*
OA = *OC* = 10.4 cm.
Angle *AOC* = 120°.

(a) Calculate the length of the arc *ABC* of the sector.
Give your answer correct to 3 significant figures.

.....cm

(b) Calculate the area of the shaded segment *ABC.*
Give your answer correct to 3 significant figures.

.....cm^2

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5) A circle has a **circumference** of **120cm**. What is the **area** of the circle?

Show your work.

6) Janine has a garden in the corner of her yard and wishes to line it with bricks, as shown in the diagram below. The area of her garden is 103.9 dm^2.

What is the total length of the bricks Janine will need to wrap around her entire garden exactly once? Round the answer to the nearest tenth.