

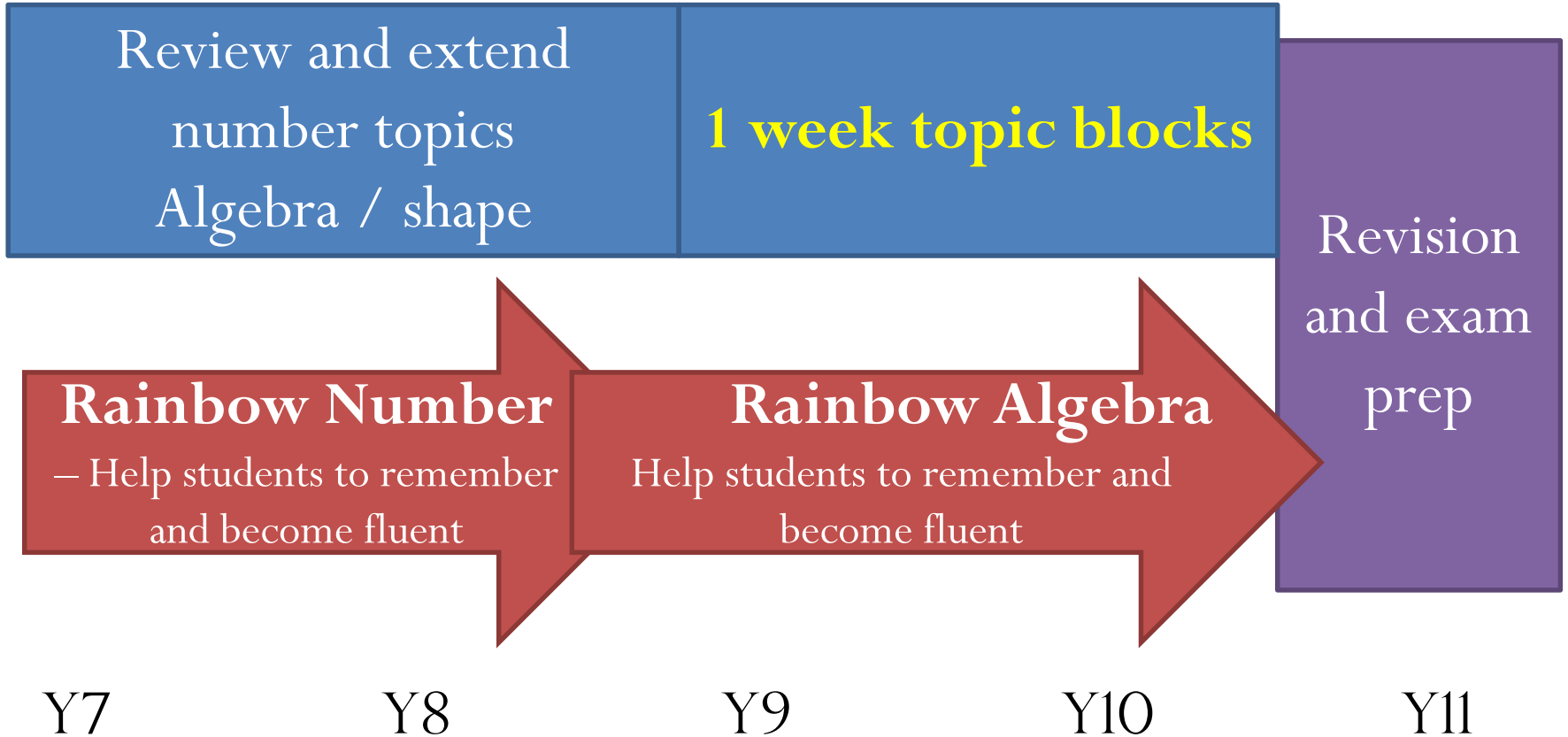


# Y9&10 INFORMATION EVENING

## MATHEMATICS

SEE WHAT YOU CAN REMEMBER ... HAVE A  
GO AT THE PROBLEMS ON THE TABLE!

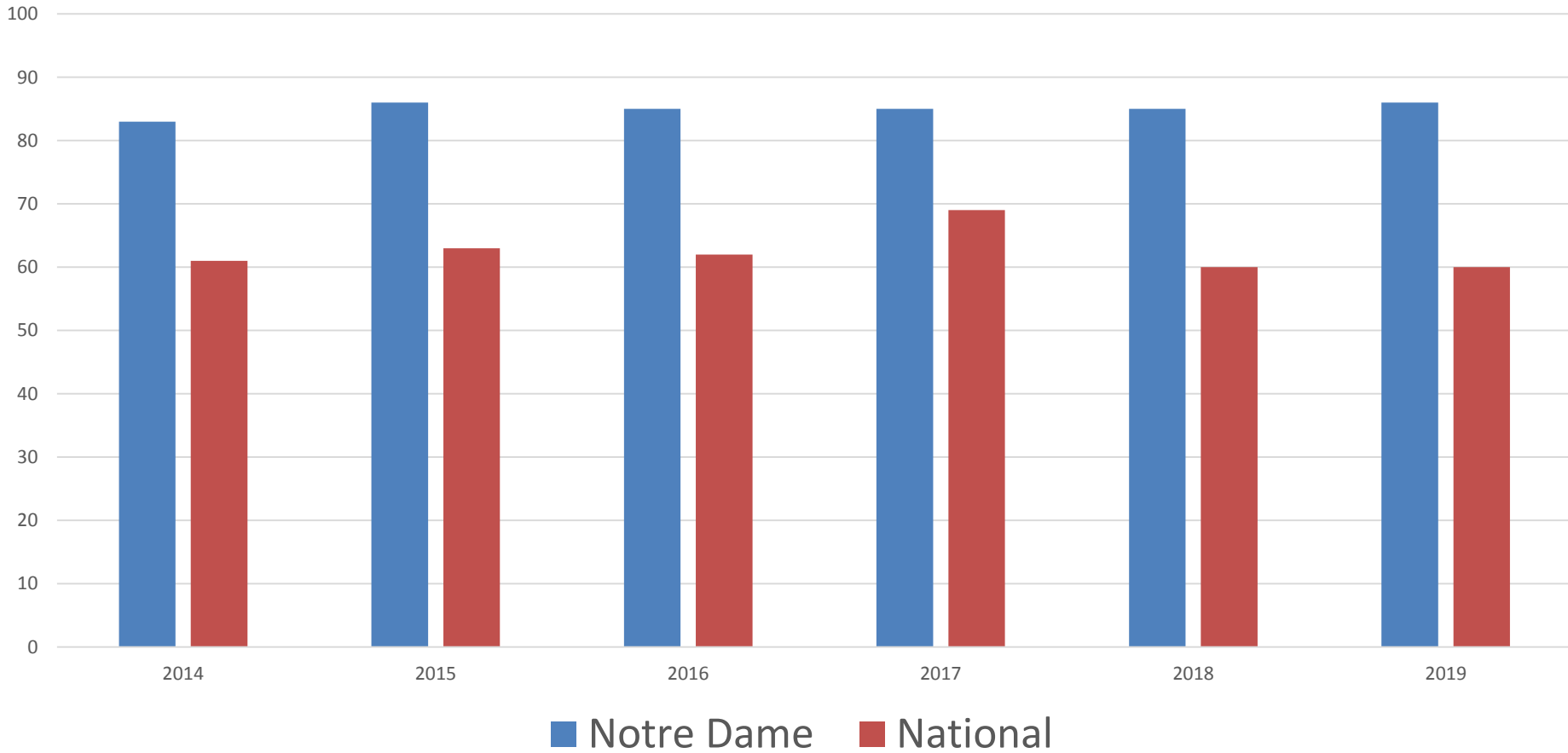
# 5 YEAR PLAN





# DEPARTMENT RESULTS

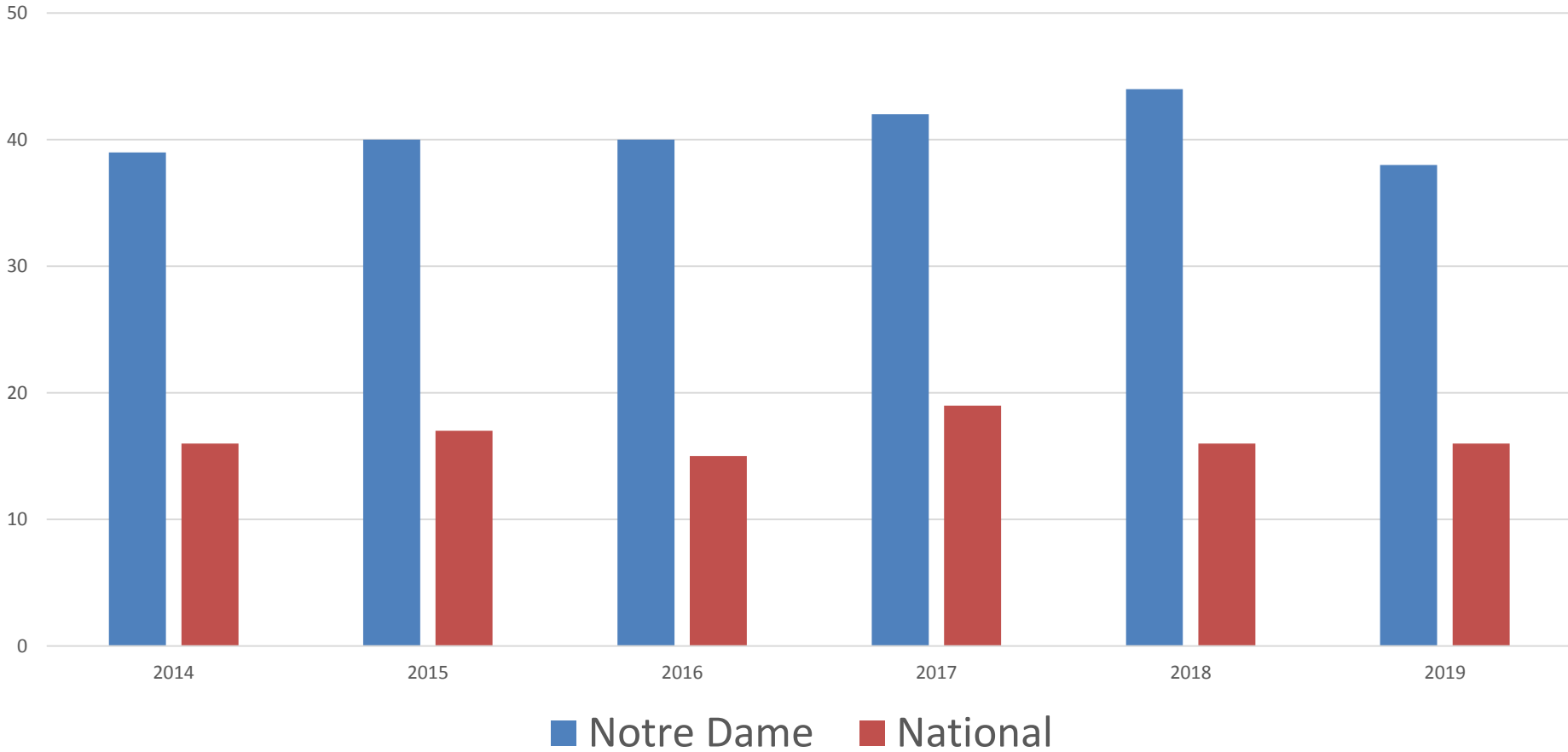
## % of students achieving standard pass or above (4+)





# DEPARTMENT RESULTS

## % of students achieving top grades (7+)



# DEPARTMENT RESULTS



BUT MORE IMPORTANTLY...

Over the last decade, we have been consistently in the top 10% of maths departments in terms of progress.

*This year's progress score for maths was*

**0.23**



# Grades

9 *Top 3% of students*

8

7



Mapped to  
old grade A

6

5

4



Mapped to  
old grade C

3

2

1



Mapped to  
old grade G

Higher

Foundation



# OLD GCSE

The diagram shows a circular pond with a path around it.

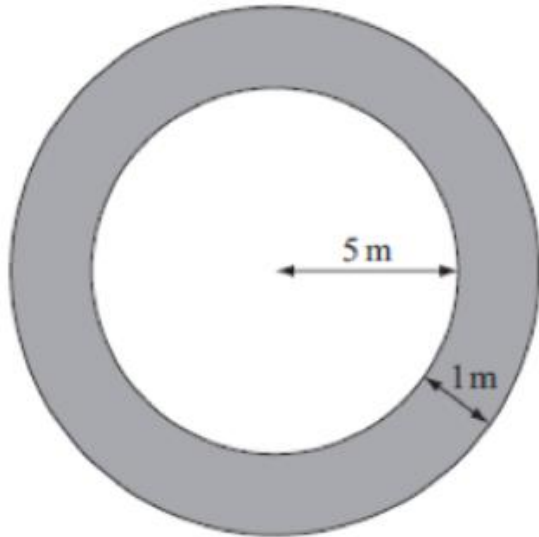


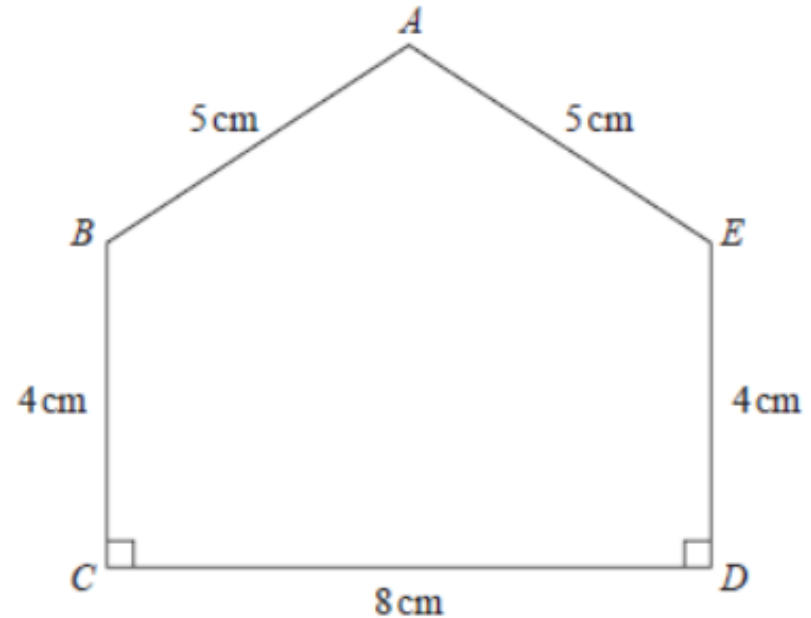
Diagram **NOT**  
accurately drawn

The pond has a radius of 5 m.  
The path has a width of 1 m.

Work out the area of the path.  
Give your answer correct to 3 significant figures.

# NEW GCSE

$ABCDE$  is a pentagon.

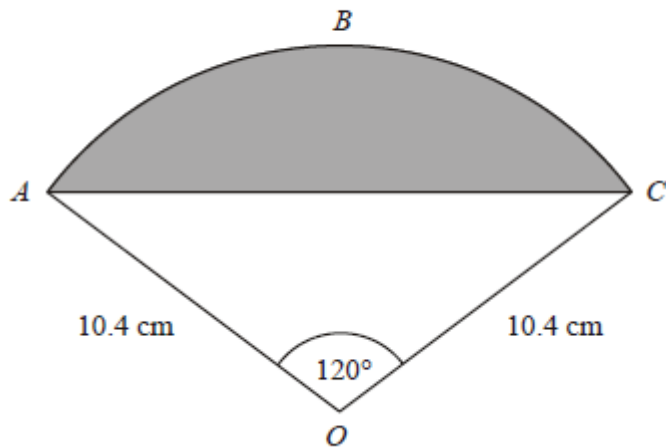


Work out the area of  $ABCDE$ .



# OLD GCSE

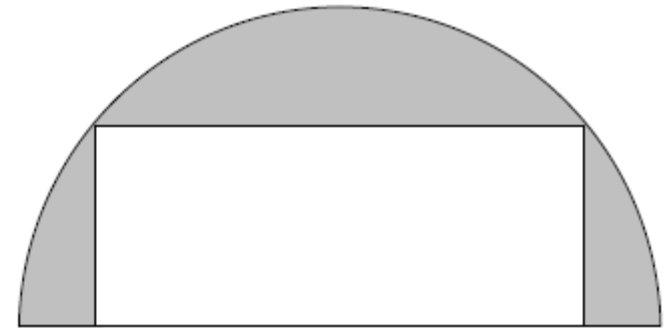
Diagram NOT accurately drawn



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

# NEW GCSE

The diagram shows a rectangle inside a semicircle.  
The rectangle has dimensions 16 cm by 6 cm



Work out the shaded area.  
Give your answer in terms of  $\pi$ .



# NOVICES AND EXPERTS



07382863494

01141066365

01141066365



# NOVICES AND EXPERTS

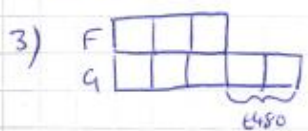
## Quizzes

1. What number cubed is 27?
2. What is 0.11 as a fraction?
3. Fred and Gill share money in the ratio 3:5. If Gill gets £480 more than Fred, how much does Fred get?
4. What's the probability of getting a score of 11 when rolling two dice?
5. Work out  $3 \times 50 - 3 \times 5^2$

#17

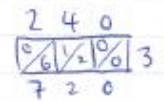
1) **3** because  $3 \times 3 = 9$   
and  $9 \times 3 = 27$

2)  $\frac{11}{100}$



$$£480 \div 2 = £240 \text{ (each box)}$$

Fred gets  $3 \times 240$



Fred gets **£720**

4) 

	Die 1					
Die 2	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

$$P(11) = \frac{2}{36}$$

5) **BIGMAS!**  
 $3 \times 50 - 3 \times 5^2$   
 $= 3 \times 50 - 3 \times 25$   
 $= 150 - 75$   
 $= 75$

# HOW TO SUPPORT YOUR CHILD



**Organisational...**

**Moral Support...**

# PLACES TO LOOK...

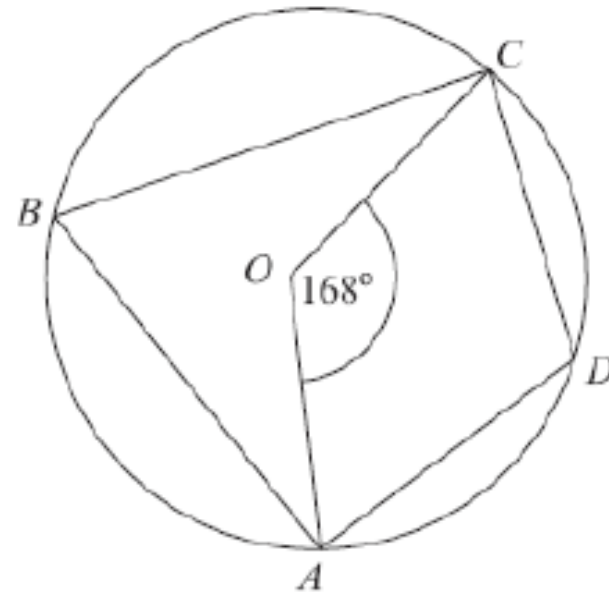


**Independent work:**

**Hegarty Maths  
Quiz Book**

Mr Barton eBook  
Corbett Maths  
Khan Academy

# FAQS TUTORS



$A$ ,  $B$ ,  $C$  and  $D$  are points on the circumference of a circle, centre  $O$ .

Angle  $AOC = 168^\circ$

Work out the size of angle  $ADC$ .

You must give reasons for your working.

# FAQS SETTING



set 1		set 4
9		8
9		8
9		7
9		7
9		7
9		6
9		6
9		6
9		6
9		6
9		6
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8		5
8		5
8		5
8		5
8		5
8		5
8		5
7		5
7		5
7		4
7		4
7		
7		
7		

# QUESTIONS



The diagram shows a circular pond with a path around it.

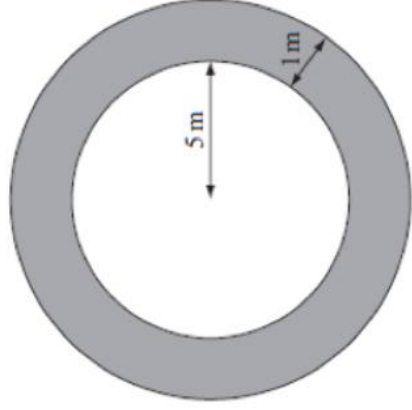
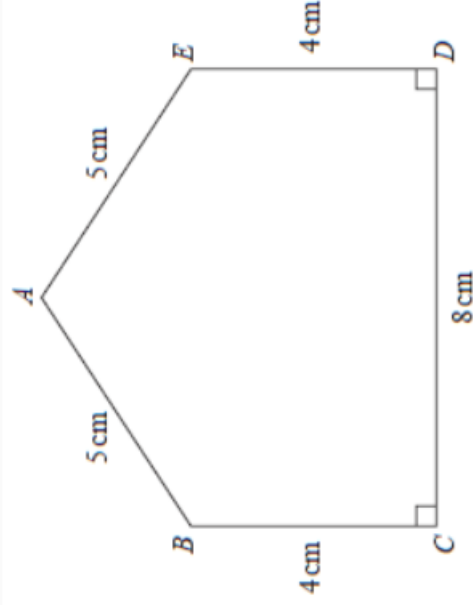


Diagram NOT  
accurately drawn

The pond has a radius of 5m.  
The path has a width of 1m.

Work out the area of the path.  
Give your answer correct to 3 significant figures.

$ABCDE$  is a pentagon.



Work out the area of  $ABCDE$ .

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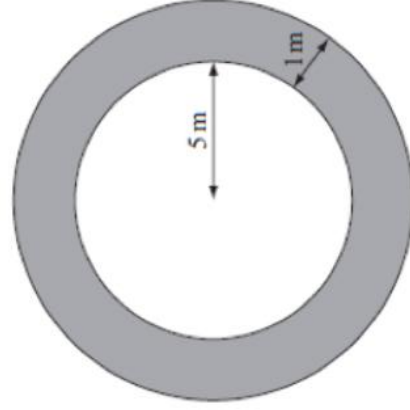
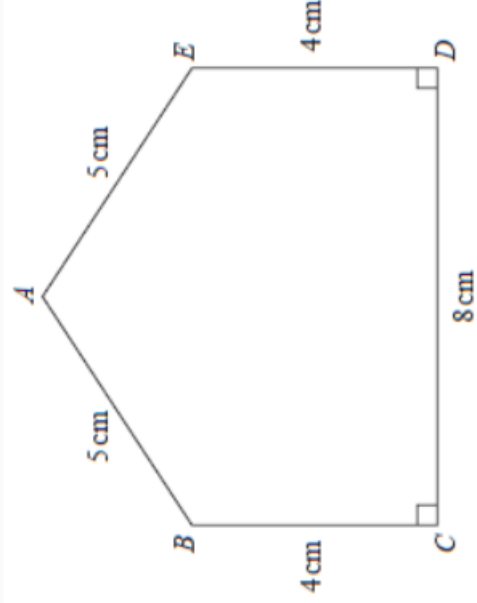


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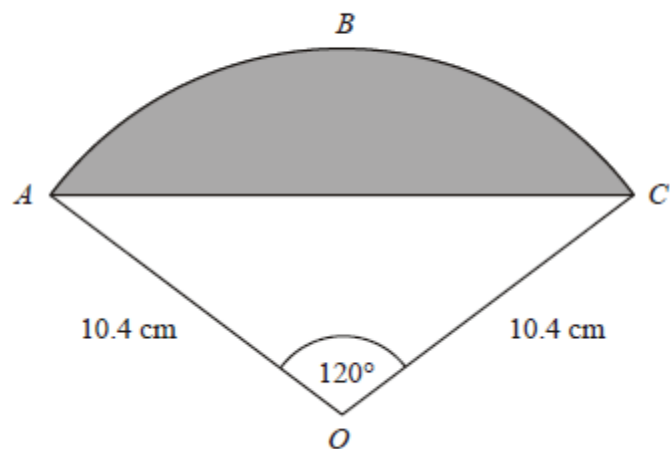
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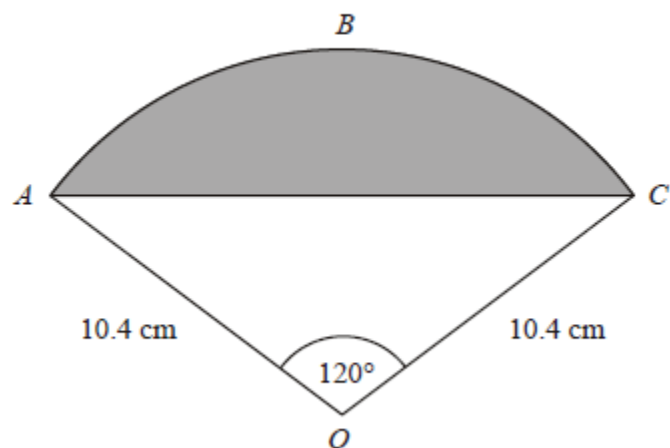


Diagram NOT accurately drawn



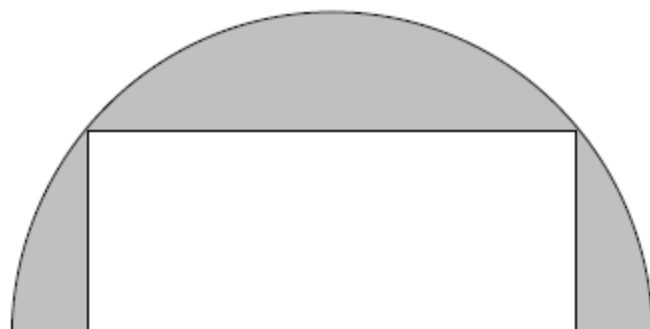
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Diagram NOT accurately drawn



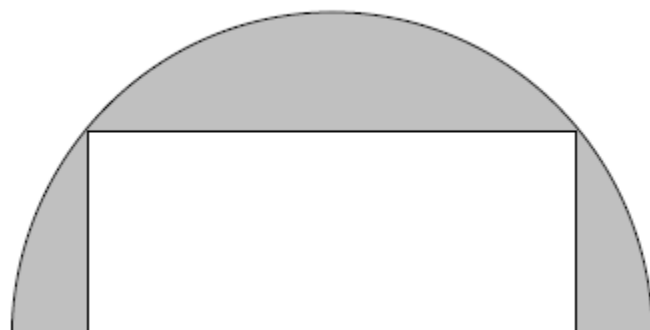
- (b) Calculate the area of the shaded segment  $ABC$ .  
Give your answer correct to 3 significant figures.

The diagram shows a rectangle inside a semicircle.  
The rectangle has dimensions  $16\text{ cm}$  by  $6\text{ cm}$



Work out the shaded area.  
Give your answer in terms of  $\pi$ .

The diagram shows a rectangle inside a semicircle.  
The rectangle has dimensions  $16\text{ cm}$  by  $6\text{ cm}$



Work out the shaded area.  
Give your answer in terms of  $\pi$ .