



Y9&10 INFORMATION EVENING

MATHEMATICS

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

5 YEAR PLAN



2/3 week topic blocks at an appropriate level

Rainbow Number – build
secure foundation in arithmetic

Rainbow Algebra
Algebra required for GCSE

Revision
and exam
prep

Y7

Y8

Y9

Y10

Y11

'NEW' GCSE IN MATHS



- **New grading system**
- New content
- Greater demand
- 3 x 1 ½ hour exams



Grades

9 *Top 3% of students*

8

7



Mapped to
current A

6

5

4



Mapped to
current C

3

2

1



Mapped to
current G

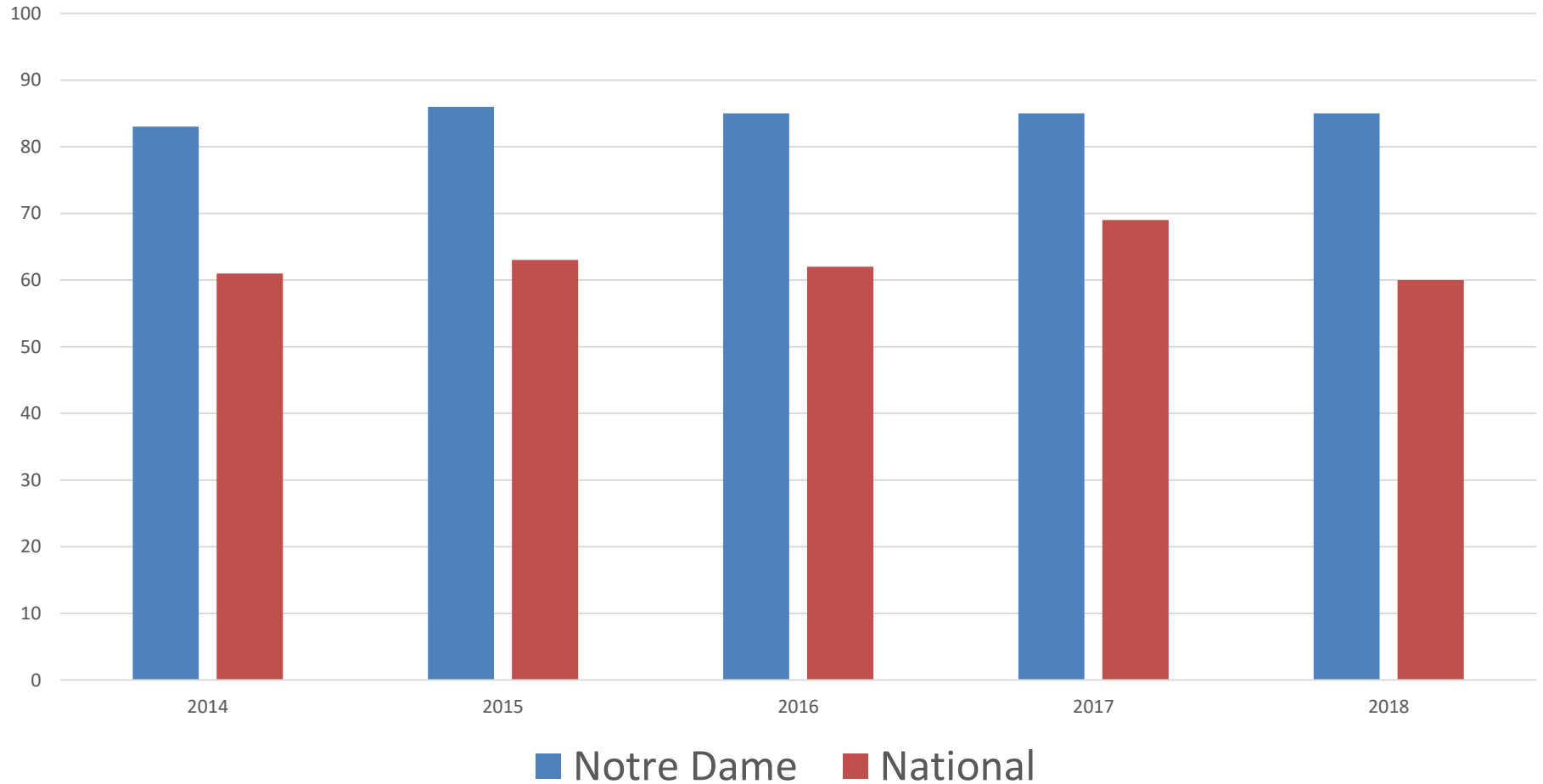
Higher

Foundation



DEPARTMENT RESULTS

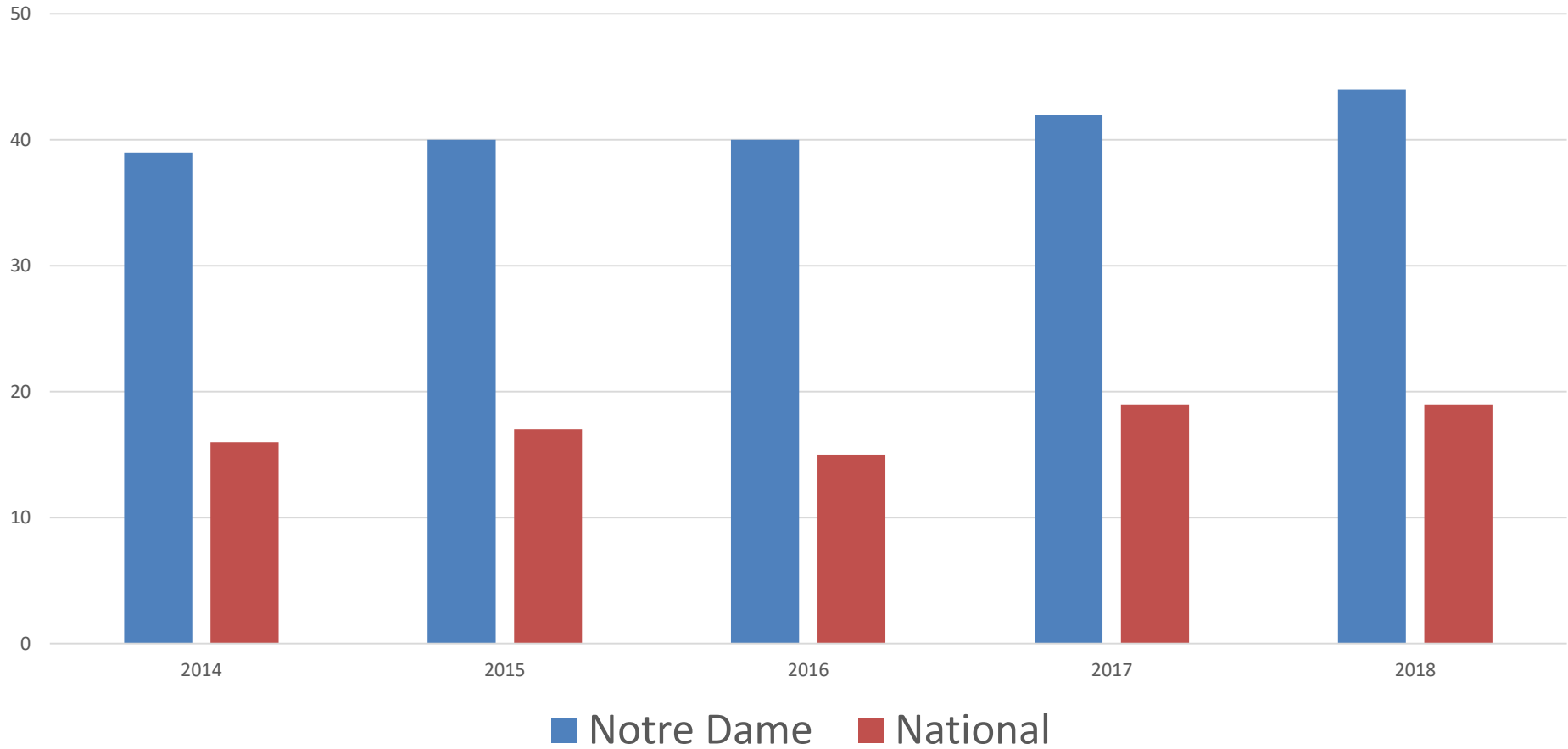
% of students achieving a standard pass (4+)





DEPARTMENT RESULTS

% of students achieving top grades (7+)



DEPARTMENT RESULTS



BUT MORE IMPORTANTLY...

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

This year's progress score for maths was

0.45

NEW GCSE IN MATHS

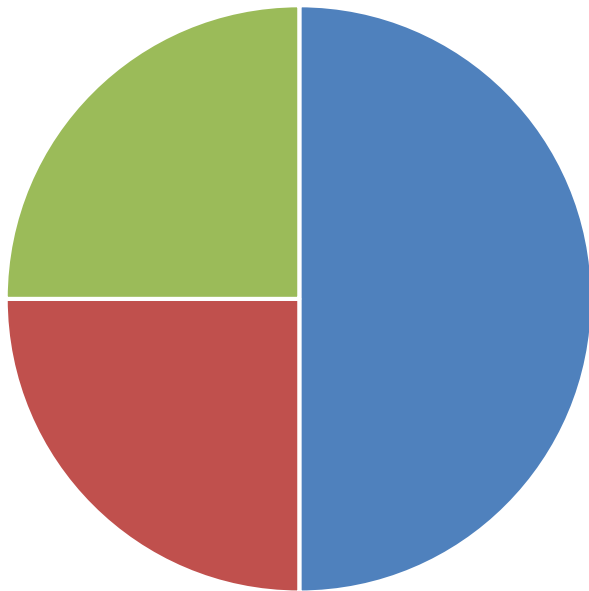


Use and apply standard techniques

Reason, interpret and communicate mathematically

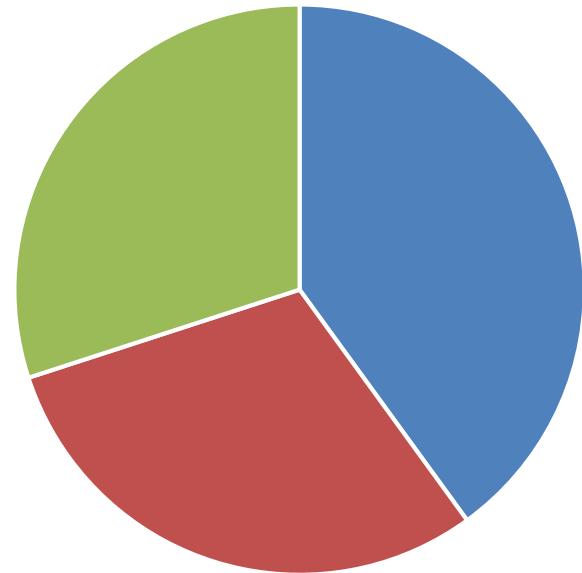
Solve problems within mathematics in other contexts

Foundation



■ A01 ■ A02 ■ A03

HIGHER

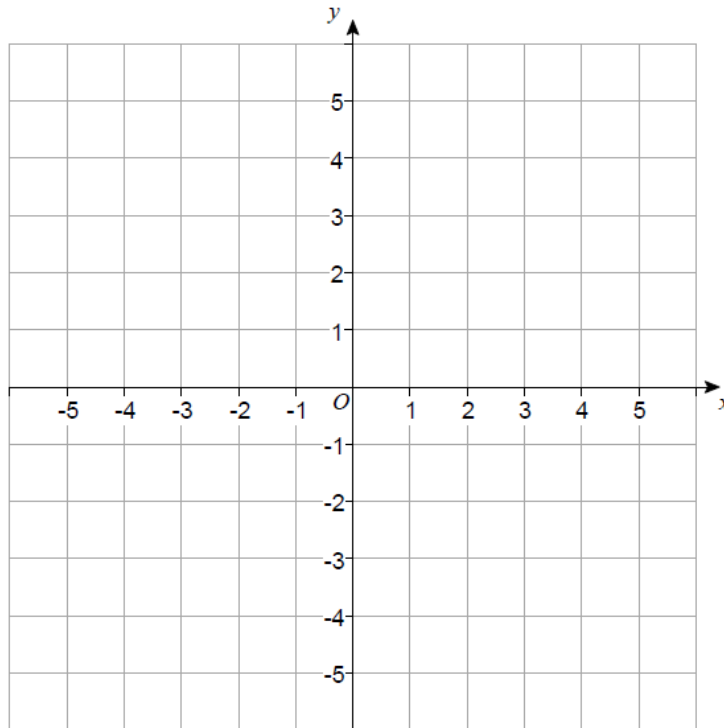


■ A01 ■ A02 ■ A03

NEW GCSE: FOUNDATION



11 Here is a centimetre grid.



$A(3, 5)$, $B(0, -3)$ and $C(-5, 2)$ are three points.

What type of triangle is ABC ?

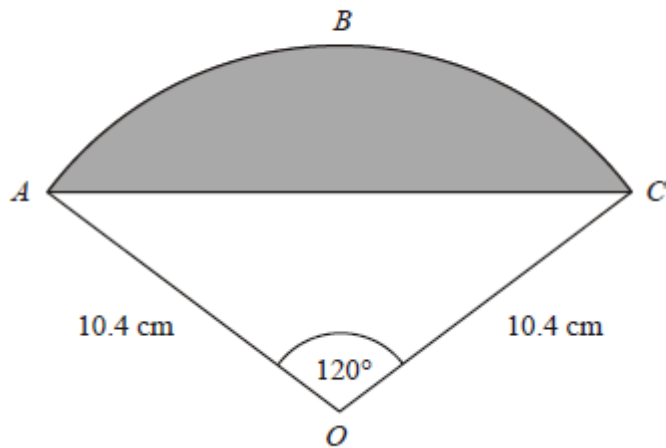
You **must** show your working which may be on the diagram.

[2 marks]



OLD GCSE

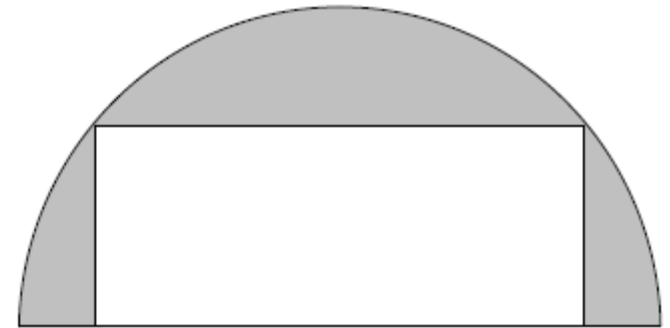
Diagram **NOT** accurately drawn



- (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 π .

NOVICES AND EXPERTS
AUTOMATED KNOWLEDGE



07382863494

01141066365

01141066365

NOVICES AND EXPERTS AUTOMATED KNOWLEDGE



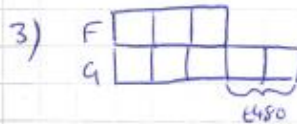
Quizzes

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) $\frac{11}{100}$



$£480 \div 2 = £240$ (each box)

Fred gets 3×240

$$\begin{array}{r} 240 \\ \times 3 \\ \hline 720 \end{array}$$

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

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

BIGMAS!

5) $3 \times 50 - 3 \times 5^2$
 $= 3 \times 50 - 3 \times 25$

$= 150 - 75$

$= 75$

HOW TO SUPPORT YOUR CHILD



Organisational...

Moral Support...

PLACES TO LOOK...

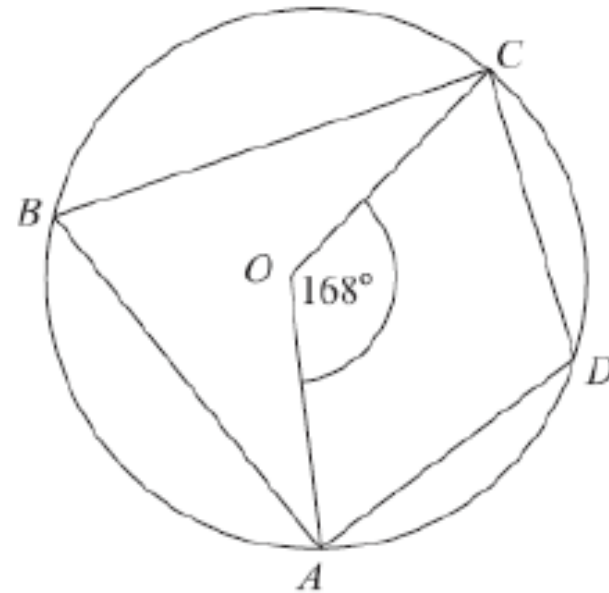


Independent work:

**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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7	
7	
7	

QUESTIONS

