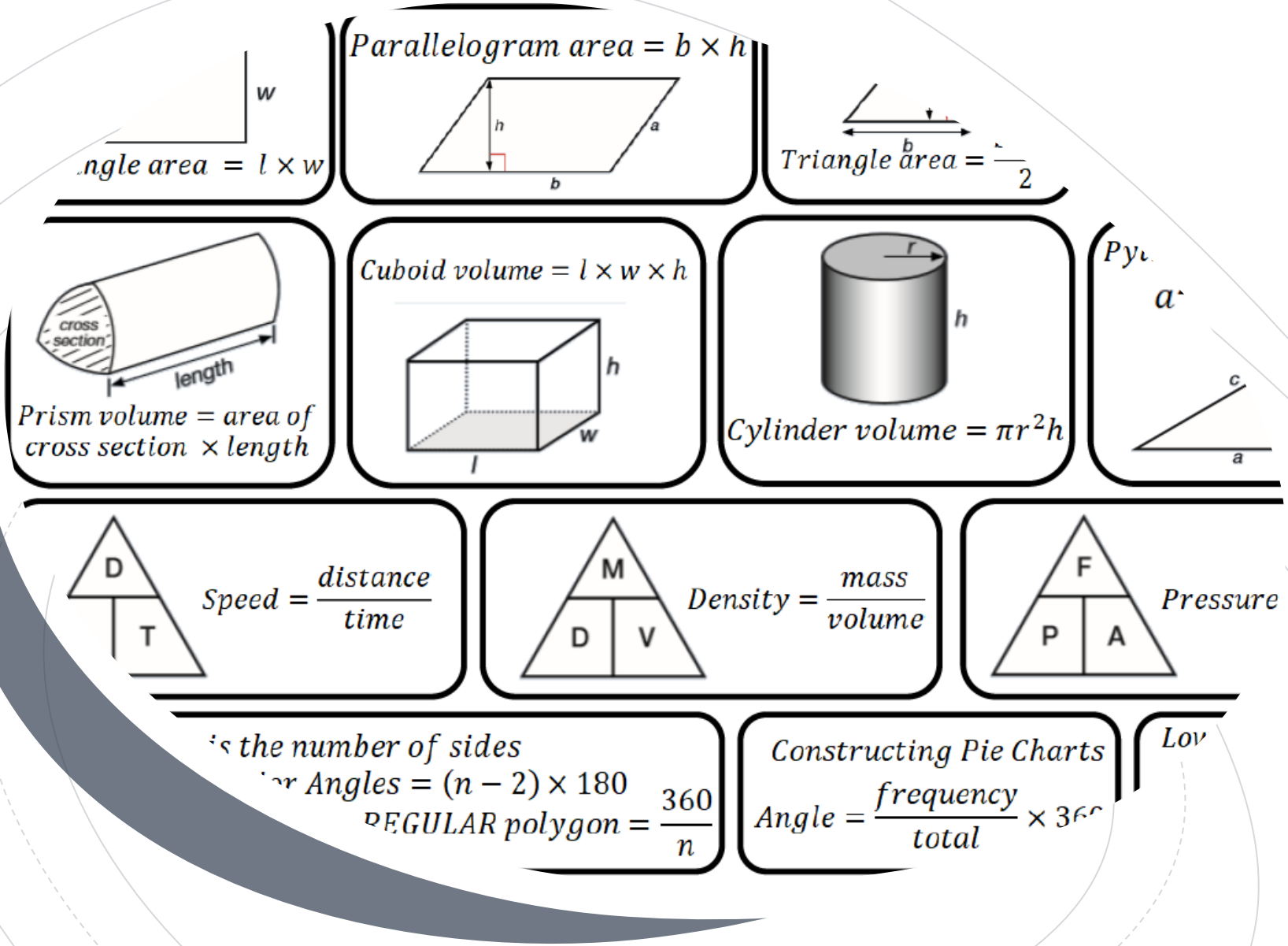
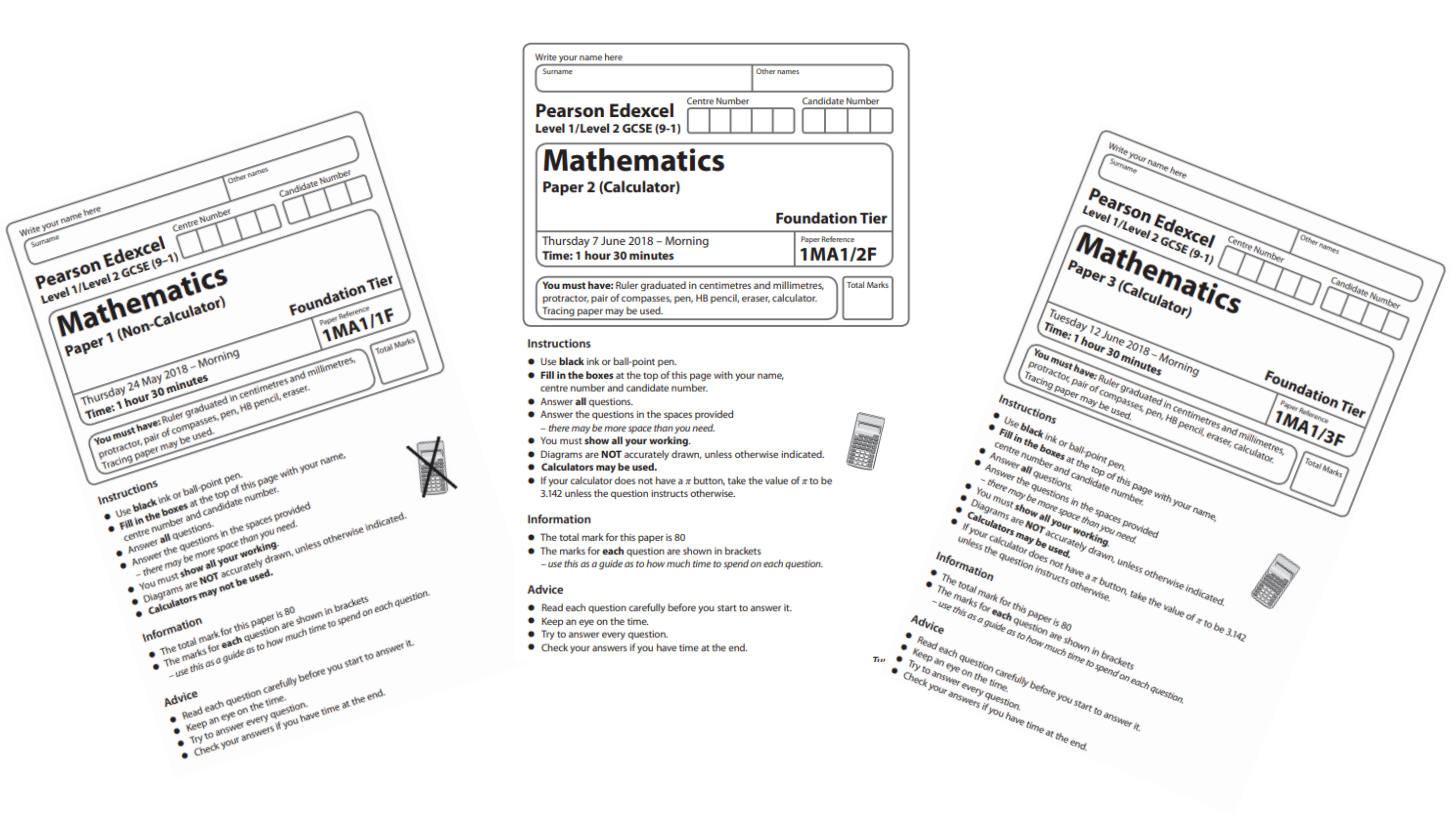


GCSE Mathematics at The Friary

About the Maths Exam



Exam Board

Edexcel

Tiers

Higher (Grade 4-9) Foundation (Grade 1-5)

3 Papers

1 Non-calculator

2 Calculator

Each 1.5hrs long

Exam Papers in Focus: Higher

Write 124 as a product of its prime factors.

Work out the value of $\dfrac{\left(5\frac{4}{9}\right)^{-\frac{1}{2}} \times \left(4\frac{2}{3}\right)}{2^{-3}}$

You must show all your working.

Cormac has some sweets in a bag.
The sweets are lime flavoured or strawberry flavoured or orange flavoured.

In the bag

$$\text{number of lime flavoured sweets} : \text{number of strawberry flavoured sweets} : \text{number of orange flavoured sweets} = 9 : 4 : x$$

Cormac is going to take at random a sweet from the bag.

The probability that he takes a lime flavoured sweet is $\frac{3}{7}$

Work out the value of x.

A delivery company has a total of 160 cars and vans.

the number of cars : the number of vans = 3 : 7

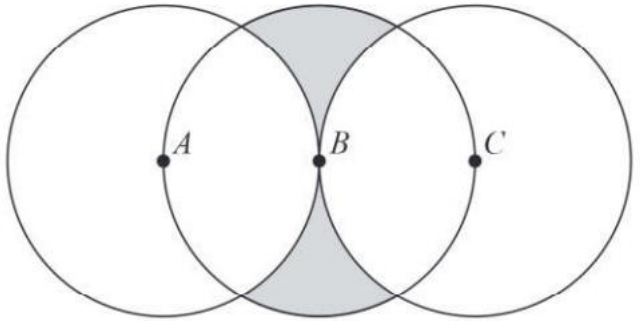
Each car and each van uses electricity or diesel or petrol.

$\frac{1}{8}$ of the cars use electricity.
25% of the cars use diesel.
The rest of the cars use petrol.

Work out the number of cars that use petrol.
You must show all your working.

The diagram shows three circles, each of radius 4 cm.

The centres of the circles are A, B and C such that ABC is a straight line and $AB = BC = 4$ cm.



Work out the total area of the two shaded regions.
Give your answer in terms of π

Exam Papers in Focus: Foundation

A delivery company has a total of 160 cars and vans.

the number of cars : the number of vans = 3 : 7

Each car and each van uses electricity or diesel or petrol.

$\frac{1}{8}$ of the cars use electricity.
25% of the cars use diesel.
The rest of the cars use petrol.

Work out the number of cars that use petrol.
You must show all your working.

Change 40 centimetres into millimetres.

Simplify $e + e + e + e$

The diagram shows three identical rectangles **A**, **B** and **C**.

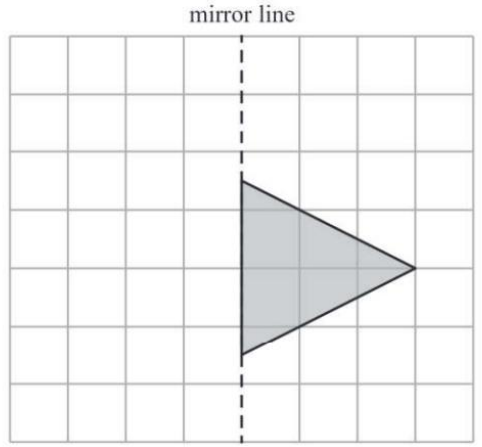
Rectangle **A** Rectangle **B** Rectangle **C**

$\frac{5}{8}$ of rectangle **A** is shaded.

$\frac{9}{11}$ of rectangle **C** is shaded.

Work out the fraction of rectangle **B** that is shaded.

On the grid, reflect the shaded triangle in the mirror line.



(Total for Question 3 is 1 mark)

Equipment

Calculator

+

All other standard equipment for lessons (pen, pencil, ruler etc)

Students DO NOT need a pair of compasses, or a protractor as we lend those out when we need them

Assessments

- 1 end of half term assessment
- 2-3 learning checks throughout each half term
- Focus is current topic with some previous content addressed

- Revision homework set and checked for completion
- Revision in class
- Focus on exam technique
- Specific after school booster sessions

Y10 Mocks- June. This will assess both pupils' calculator and non-calculator skills. This will be the first time that Year 10 pupils will complete two full papers in the sports hall. This is in preparation for the Y11 November mocks, where pupils will sit a full set of 3 GCSE papers.

What can students do to improve their Maths?

Websites

https://www.drfrostmaths.com/

https://www.mathsgenie.co.uk/

https://corbettmaths.com/

Revision Workbooks

Resources on these websites include

- Video tutorials
- Exam questions
- Textbook questions
- Full solutions
- Revision pages
- Games

PRACTICE MAKES PERMANENT