

News Letter



November 2021

Remember, remember the 5th November. It's a time of fireworks, toffee apples and internal testing! Pupils have had their first tests at school and we're helping them get to grips with exam preparation. We hope to see you soon, Barbara and Rufus

We have some pupils taking exams very soon. These include a pupil taking the Cambridge entrance exam and the UK Maths Challenge!

The maths these exams require is not complex, but you have to be able to use it to solve unfamiliar problems

Visit www.mathsblast.com/puzzlepacks for similar problems for a range of levels

16 The circle C_1 has equation $(x + 2)^2 + (y - 1)^2 = 3$
The circle C_2 has equation $(x - 4)^2 + (y - 1)^2 = 3$
The straight line l is a tangent to both C_1 and C_2 and has positive gradient.
The acute angle between l and the x -axis is θ
Find the value of $\tan \theta$

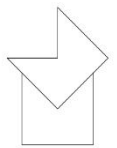
SENIOR MATHEMATICAL CHALLENGE

2-5 November 2020

11. Two congruent pentagons are each formed by removing a right-angled isosceles triangle from a square of side-length 1. The two pentagons are then fitted together as shown.

What is the length of the perimeter of the octagon formed?

A 4 B $4 + 2\sqrt{2}$ C 5 D $6 - 2\sqrt{2}$ E 6



Video 1: Factorising Quadratic Expressions

$$3x^2 - 5x - 2$$



Students are preparing for their GCSEs from Year 9 to Year 11 and one of the most important topics is Quadratic Equations. There are different ways to solve them and techniques that need to be learnt along the way.

Barbara has created a series of revision videos suitable for all students that study quadratic equations with us or at school and would like to revise what we do in class.

Visit www.mathsblast.com/quadraticoverview to access our revision material

Refer a friend!

Refer a friend to Maths Blast!
Tuition and if they sign up, you'll
get a free lesson on us!



www.mathsblast.com



Parents, it's getting cold outside!
Come put your feet up with some tea
and biscuits in our new waiting area
or just come and charge up your
phone while you wait!