

Y8 Maths Investigation (Tuesday 7th September)

Please note that you have a choice of either the investigation about square numbers which we encourage you to try or the work on the bounceback website. You can of course do a mixture of both. You will need to use the library/internet- but you do have 6 weeks!

You need to know about square numbers.

6^2 (reads as 'six squared') means $6 \times 6 = 36$

7^2 means $7 \times 7 = 49$

Task 1

Work out 1^2 2^2 3^2 4^2 5^2 and some more square numbers

Task 2

Can you find 3 numbers so that $x^2 + y^2 = z^2$

Clue try 3, 4, 5

Task 3

Find as many sets of numbers as you can so that $x^2 + y^2 = z^2$

Task 4

Can you find 3 whole numbers so that $x^3 + y^3 = z^3$

Task 5

Research Fermat's last Theorem, perhaps using the Internet.

Hand your work in to Mr. Flinton on Thursday. We will then hold a presentation with small prizes. Tasks 3, 4 and 5 are open ended. You will all use this work later in the year.

As an alternative to the above investigation you can use the following website:

www.bounceback.co.uk and then complete several of the homework sheets. Hand your work in to your maths teacher in the first lesson. We will then hold a presentation with small prizes for the best work.