

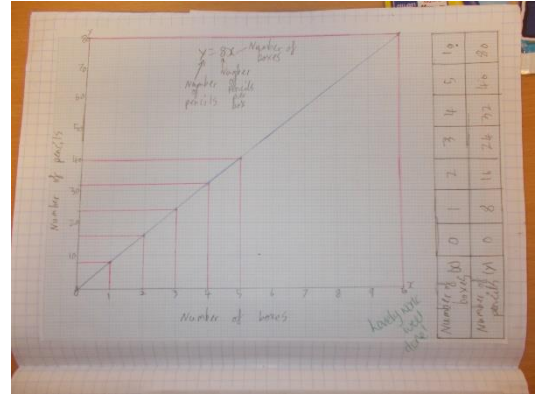
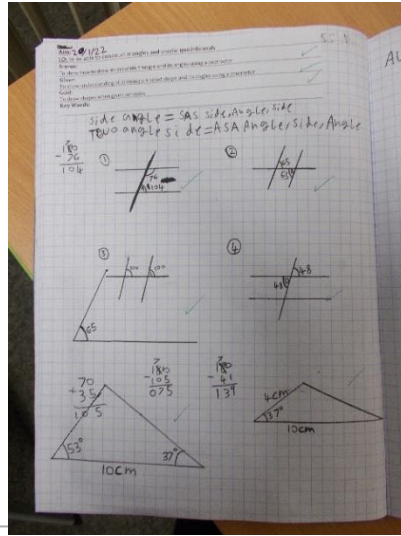
Outcomes:

Maths learning

To be able to draw a line on a graph with a given equation e.g.  $y=7x$

To be able work out a given percentage of an amount, also an increase or decrease.

To show whether an angle is vertically opposite, co-interior, corresponding or alternate.



All our students have had a really great start to 2022! We have been learning all about our new topics from percentages and fractions to graphs and coordinates to even angles including interior and exterior.

Our year 8 have been learning all about angles, and ways to work out the value. They have also been looking at how to find the interior angles of a shape, for example interior angles of an octagon is  $8-2 \times 180$ , they have all been working amazing and really picked it up.

Year 9 topic was all about graphs, learning where to place lines on a graph with a given equations and drawing tables with the values to be able to then plot the coordinates.

Our year 10 group has been having fun learning about percentages and fractions, using our starters giving items putting them on sale and working as a group to find the new price they had a good laugh over their chosen items but they really understood the topic and were great throughout.

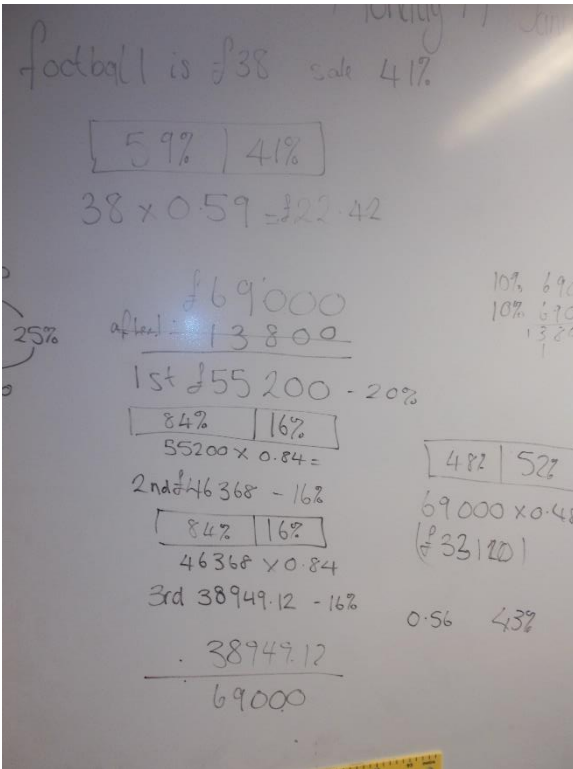
Year 11s have been recapping learning about percentages and applying this knowledge to exam questions. They have found this helpful and are beginning to feel more confident when answering exam questions independently. As well as percentages, we learnt how to solve simultaneous equations. The pupils were fantastic and especially enjoyed the picture questions. Again, we applied this to exam style questions and pupils felt confident with the methods they had learnt

Quotes:

Interior angles on an octagon add up to 1080

An easy way to work out 48% of 264 is  $0.48 \times 264$

To plot your coordinate you remember "across the corridor and up the stairs"



1 Here are two equations represented with counters.

$$\text{Yellow} = \text{Red} + \text{Red} + \text{Red} \quad (1)$$

$$\text{Yellow} + \text{Red} + \text{Red} = 30 \quad (2)$$

All red counters have the same value and all yellow counters have the same value.

a) Use equation (1) to complete the sentence.

Each yellow counter is worth 3 red counters.

b) Use your answer to part a) to draw equation (2) using just red counters.

$$\text{Red} + \text{Red} + \text{Red} + \text{Red} + \text{Red} = 30$$

**Here is some of our starters and board work from all year groups.**

