GCSE Higher Flying Start Pack

In order to prepare you for your new course starting on 11th September we have put together a pack of materials for you to work on over the next week.

You should print this out, complete it and **bring it along to your first lesson.**

In addition you need to ensure you have the correct equipment at the start of the course. You will need the following **every lesson.**

File/Ring binder
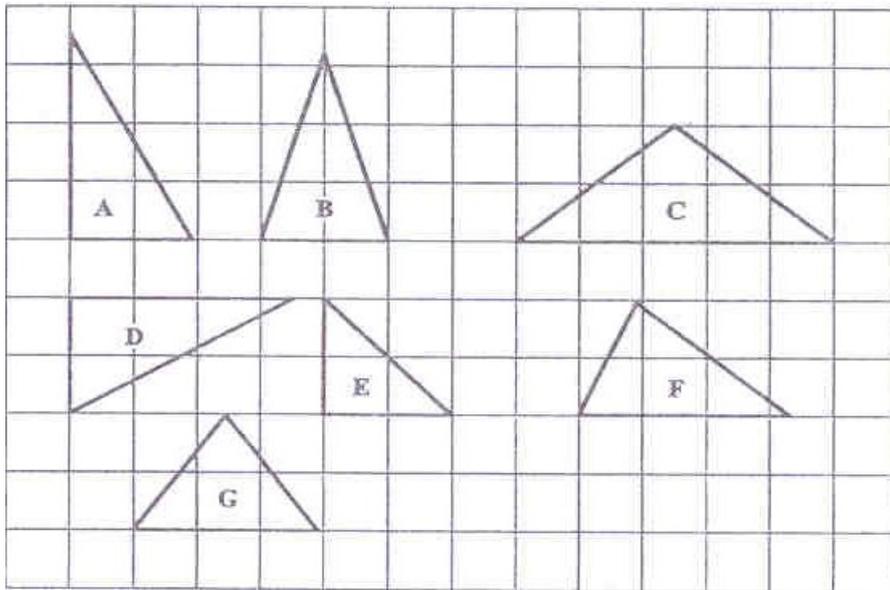Paper
Pen
Pencil
Ruler
Calculator
Protractor
Compass

The mathematical equipment (calculator, protractor, compass, ruler and pencil) will be available from the student shop in a handy A5 sized wallet for £6.

Good Luck we look forward to seeing you next week.

Q.1)

Two triangles are congruent.

a) which two?

b) one triangle is both right-angled and isosceles, which one?

Q.2) Solve

9 - 2x = 3x -1

Q.3)

a) Write 60% as a fraction.

b) And as a decimal.

Q.4)

Starting with the smallest, write the numbers below in order of size

70% , 3/4, 0.6, 2/3

Q.5) A sequence is given as

3, 7, 11, 15 , ___, ___, ___

a) find the next three terms

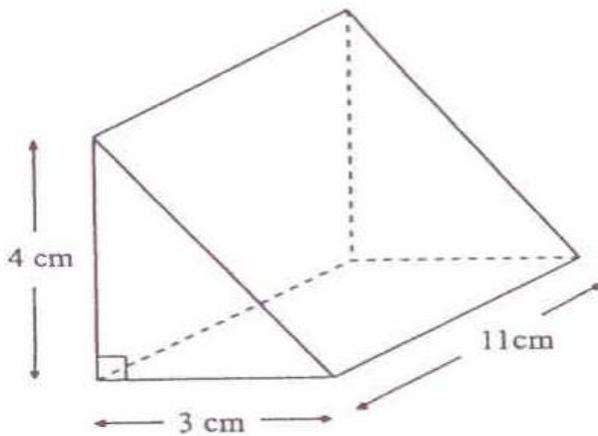b) find the n-term rule for this sequence

c) what is the 100th term of this sequence.

Q.6) Meg has a biased coin. The probability that it lands on heads is 0.4.
Meg is going to spin the coin 350 times.
Estimate the number of times it will land on heads.

Q.7) On a map, 1 cm represents 2km. What distance on the map will represent a real distance of 7km

Q.8
In a sale, all normal prices are reduced by 15%.
Normal price of a Jacket is £42
John buys the jacket in the sale.
Work out the sale price of the jacket.

Q.9)

Work out the volume of the prism.

Q.10)

Work out:
1 + 2 x 3