**Fundamentals to Practice Going into yr 11 (1)**

1. **Arithmetic**. Work out the following
2. $\frac{2}{3} +\frac{1}{5}$
3. $\frac{5}{6}-\frac{5}{12}$
4. $\frac{3}{8}×\frac{4}{15}$
5. $\frac{9}{10}÷6$
6. **Percentages**. A t-shirt that would normally cost £27 is sold with a 12% discount. What’s the discounted price of the t-shirt?
7. **Linear Alegebra**.
8. Expand and simplify:

$$3\left(x-4\right)-2(2x+1)$$

1. Solve:

$$2(x-6)=x-8$$

1. **Quadratic Algebra.** Expand and simplify:

$$(2x-3)(x+4)$$

1. **Volume and Area**. Work out the area of the triangle below:

9 cm

12 cm

1. **Pythagoras and Trig**. Work out the hypotenuse of a right angled triangle with perpendicular sides of length 5cm and 12cm respectively
2. **Statistics.** A statistician noted down the hights (in cm) of 5 football players. Work out the mean.

178, 169, 180, 182, 172