HOLY TRINITY

VIOLET B

1) Work out 136.668 ÷ 0.14

2) $4\frac{2}{7} + 3\frac{1}{2} - 3\frac{1}{7}$ (Give your answer to 3.d.p)

3) *You may use a calculator for this question.*

A car costs 11760 including 20% Value Added Tax.
How much was the tax?

4) The distance travelled by a car during the 4 seconds (t) it takes to brake from a speed of 30 metres per second (u) and come to rest at 0mph (v), is given by the formula

$$s = \frac{(v + u)}{2} t$$

Find the distance travelled by the car while braking.

5) $3\frac{3}{4} + t = 5\frac{1}{8}$

$2\frac{2}{3} + k = 4\frac{1}{6}$

Evaluate t + k. Write you answer in its simplest form

6) *You may use a calculator for this question*

The value of a car depreciates by 10% each year for 4 years. What would the percentage increase need to be so that the car returns to its original value at the end of the 5th year. Give your answer to 5dp