HOLY TRINITY

VIOLET A

1) Find $5\frac{3}{5}$ of 1.444

2) $1\frac{4}{11} \times 1\frac{11}{13} \times 2\frac{3}{8}$

3) Billy puts £3000 into a bank that pays 2% compound interest per annum. How much interest will Billy have after 2 years?

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

In a 14% off sale, a dress now costs £387. What was its original cost?

5) The number of roots of a quadratic equation is determined by the formula $d = b^2 - 4ac$. The equation has 2 roots if d is positive, 1 if d is zero, and none if d is negative.
Find d for the equation

$$2x^2 + 5x + 7 = 0$$

(a = 2, b = 5, c = 7)

Hence determine the number of roots of the equation.

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

Barry sells a car for £2100. He bought it 4 years ago. During the first two years, its value decreased by 10% of the value at the start of the year.
During the second two years, its value decreased by 20% of its value at the start of the year.

How much did Barry pay for the car?
Give your answer to the nearest £10.