HOLY TRINITY

INDIGO D

1) $1\frac{1}{2} \div 2\frac{5}{8}$

2) 3742 ÷ 15

3) 3.14159 x 5^2

4) Jennifer says that $\frac{6}{8} \times \frac{4}{6} = \frac{1}{2}$. Is she correct?
Show all your working.

5) If it takes 5 men 25 days to lay 1km of road, how many days will it take 10 men to build 20km of road?

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

1 US Gallon is 3.78541 litres. A car has a fuel tank of 70 litres. How many US Gallons is the fuel tank? (1.d.p)

7) The kinetic energy of a body is given by the formula

$$E = \frac{1}{2}mv^2$$

where m is the mass of the body and v is its speed.
Find the kinetic energy of a man running at 8m/s and with mass 75kg.

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

Jack drives from Paris to Nice at an average speed of 45mph. It took him 9 hours.
In petrol it costs Jack €0.32 per mile.

If the conversion rate is £1 = €1.40 how much will the petrol cost in £s?