Week 1: Numeracy

Try these exercises now, do not use a calculator, and try to solve the exercises without help

1. Write $2\frac{3}{8}$ as a decimal.

2. What do each of the digits after the decimal point in the number 12.5467 represent?

3. Do you expect your answer to $\frac{3}{8} \times \frac{4}{5}$ to be greater than $\frac{1}{2}$? Why or why not? Calculate the answer.

4. Will the result of $\frac{7}{10} + \frac{3}{5}$ be greater than 1? Calculate the answer.

5. Calculate $\frac{11}{20} - \frac{1}{3}$.

6. Simplify $5^7 \div 5^4$.

7. Calculate a value for 4^{-2}.

8. Calculate the value of $7^0 + 12^1$.

9. Sam achieved a score of 39 out of a total of 65. What is this as a percentage?

10. Last year there were 2370 runners in the Loughborough Santa Run. However, this year there were only 1896. What is the percentage decrease?

11. Find W in this equation $\frac{16}{W} = \frac{56}{21}$

12. Asha measured a house and made a scale drawing. The garage is actually 10m wide; the drawing shows this as 5cm. What is the scale factor of the drawing?