S1 Level 3 Formal Homework
(Show all working!)

Non Calculator Section: If working is not shown for this section then no marks will be awarded.

1.   a) 241.2 - 65.34   b) 15.5 x 300   c) 78 ÷ 50

2.   Simplify each of the following expressions:
        (a) 7t + 4d + 5t – 11t   (b) 9a + 12b + a – 10b
        (c) 9y + 4f + 6 - 2y + 5f + 7

3.   Find the value of each expression below when **a** = 2, **b** = 3 and **c** = - 4:
        (a) 10a – bc   (b) 5b – 3c + a   (c) $(6 - a)^2 - 2b$

4.   Multiply out the brackets and simplify where necessary.
        (a) 5(x + 7)   (b) 2(2y-6)   (c) 6(d+7) + 5

5.   Solve the following equations:
        (a) 3y + 1 = 13   (b) 9 + 2w = 15   (c) 12z – 3 = 57 + 6z
        (d) $\dfrac{y}{2}$ + 3 = 7   (e) 4(5x – 2) = 12   (f) 7x – 9 = 5x

6.   A rectangle with area 45 cm^2, has length y cm and breadth 5 cm.
        (a) Write an equation to show this information.
        (b) Solve the equation to find y.

7.   If you solved the **equation** 5x + 4 = 44 the solution would be 8.
        Make up your own **equation** that gives a solution of **8**.

Revision Section:
8.   Round these numbers to 2 decimal places:-
        (a) 15.256   (b) 125.397   (c) 254.55564455

9.   A jacket cost £45 in a shop but has 10% off in the sale.
        What does the jacket now cost?

Greenfaulds High School