<u>Maths – To use algebra skills learnt so far to</u> <u>answer SATs style questions</u>

1. Use simple formulae.

a) Calculate the value of the letter in each equation:

3a = 18	a =
63 = 9b	b =
5c = 95	c =

b) Calculate the value of the letter in each equation:

4d - 3 = 5	d =
68 = 5e + 8	e =
34 - 6f = 10	f =

c) In these equations, ${\bf x}$ is worth 7. Calculate the value of ${\bf y}$.

y = 2x + 13	y =
100 - 7x = y	y =
$y = x^2$	y =

d) The formula 4n + 9 can be used to calculate the value of the terms in this sequence:

13 17 21 25 29

Complete this table.

term	calculation	value
1st	4 x 1 + 9	13
5th		
20th		89
100th	4 x 100 + 9	

a) A locksmith uses the following charges: £12 callout charge and £15 per hour of work. Circle the formula that could be used to calculate how much the locksmith will charge for each job.

h stands for the number of hours.

12h + 15 12h - 15 15h + 12 15h - 12

d) An online shop sells wellington boots for $\pounds 7$, with $\pounds 6$ for delivery. To calculate the cost of each order the shop uses the following formula:

7n + 6

n stands for the number of pairs of wellington boots in each order.

i. Calculate the cost of ordering 8 pairs of wellington boots.