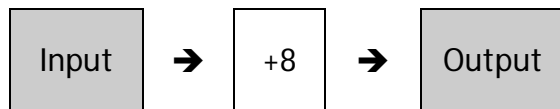


SIMPLE FORMULAE

Name: _____

Assessment Criteria: Construct, express in symbolic form, and use simple formulae involving one or more operations.

1. The following function machine adds 8 to any numbers that is input.



a) What is the output if the input is:

(i) 5

(ii) 7

b) What is the input if the output is:

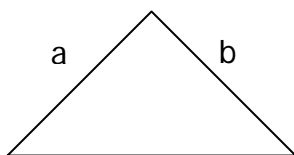
(i) 26

(ii) 52

c) The input is now called G and the output is now called H. Write a formula linking G and H.

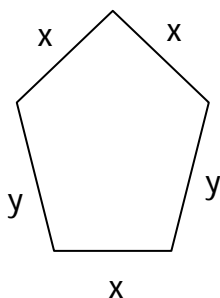
2. Write a formula for, P, the perimeter of each of the following shapes. Write your answers in the simplest form.

a)



c

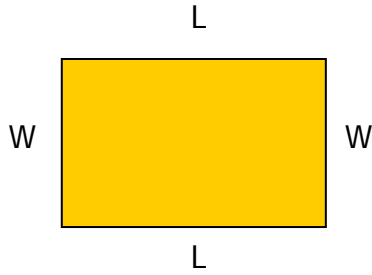
b)



c) If $x = 6$ and $y = 11$, what is the value of P for the shape above?

P = _____

3. The following table lists three ways of constructing a formula for the perimeter (P) of a rectangle. Match each way to the formula it gives.



Double the width, double the length, then add the answers together

Add the length and the width, then double the answer

Add the length to the width, to the length and then the width

$$P = 2(L + W)$$

$$P = 2L + 2W$$

$$P = L + W + L + W$$

Overall, I think my success level is:

Low High

Q	SIMPLE FORMULAE	😊	☹️
	I can understand the use of letters to represent numbers		
	I can construct simple formulae		
	I can substitute numbers into simple formulae		
	I can simplify simple formulae		
	I can multiply out brackets in simple cases		
	<i>I can show understanding of situations by describing them mathematically using symbols, words and diagrams</i>		

I need to practise ...