# Task 3.1P Answer Sheet

Name:

Student ID:

1. How many Counter objects were created?

A total of <insert how many>

## Variables declared in main() are different to the objects created when we call new. What is the relationship between the declared variables in main and the objects created?

Variables <insert relationship> objects.

1. Resetting the counter in myCounters[2] also changes the value of the counter in myCounters[0]. Why does this happen?

myCounter[2] and myCounter[0] [ … ]

## The key difference between memory on the heap compared to the stack and the heap is that the heap holds dynamically allocated memory. What does this mean ?

Dynamic memory allocation means ….

## On which are objects allocated (heap or stack) ? On which are local variables allocated (heap or stack) ?

Objects are allocated on the [ … ]

Local variables are allocated on the [ … ]

1. What does the new() method do when called for a particular class What does it do and what does it return?

When new is called on a class it *<insert what it does>* then it returns *<insert what it returns>*

## Draw a diagram showing the locations of the variables and objects in main.

Main

…

Stack

Heap