# Task 4.1P 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?

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

## 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 ?

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

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

## Draw a diagram showing the locations of the variables and objects in main and their relationships to one another.

Main

…

Stack

Heap