Harvey Mudd College Name: ANSWERS
CS 105, Computer Systems, Fall 2012
QUIZ 3 —— CLOSED BOOK, CLOSED NOTEs

Suppose register %eax holds value x and %ecx hold value y. Fill in the table below with formulas indicating the value that will be stored in register %edx for each of the given assembly code instructions:

Instruction	Result
`leal 6(%eax), %edx`	6+x
`leal (%eax,%ecx), %edx`	x+y
`leal (%eax,%ecx,4), %edx`	x+4·y
`leal 7(%eax,%eax,8), %edx`	7+9x
`leal 0xA(,%ecx,4), %edx`	10+4y
`leal 9(%eax,%ecx,2), %edx`	9+x+2y