Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Variables and Patterns***

**Investigation 4**

***Final Problem, pt.2***

 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_

Here are three equations that students created for the swings.

**A. B. C.**



*C* = *h* + ( *h* + 3 )

*C* = 2 ( *h* + 1 ) + 1

*C* = 5 + ( *h* – 1 ) + (*h* – 1 )

**1.** Create a table for the three equations showing the number of cubes in swings of different heights.

**2.** Which of the equations are equivalent? **Explain.**

**3.** Write a new equation that is also equivalent to the ones that were equivalent in number 2.