**In/Out Patterns Name**

**Part I: One Step Problems**

1. What are the next three terms in this series: 7, 14, 21…

Describe the pattern in words.

Describe the pattern in a math sentence.

What is the 100th term in the series?

1. For the formula x – 2 = y, what is the value of y when x equals 2?

When x equals 5?

When x equals 100?

1. Ten people walk into the empty cafeteria. The break into three equal groups to work on their science projects. The project is due in three days. How many people are in each group?
2. Fill in the missing boxes and write the formula.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| in | 6 | 7 | 8 | 9 | 12 |
| out | 48 | 56 | ? | 72 | ? |

1. Fill in the missing boxes and write the formula using x and y.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| In (x) | 4 | 5 | 6 | 7 | 10 | 20 |
| out (y) | 1 | 2.5 | 3 | 3.5 | ? | ? |