

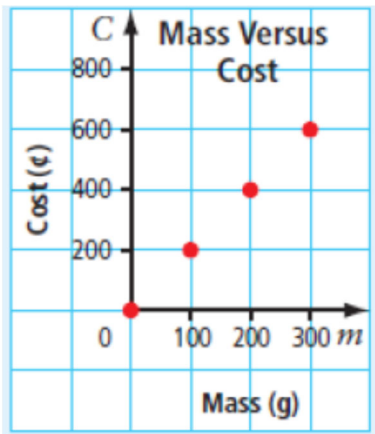
Name: _____

Date: _____

Learning Goal 5.2

I can express relations as expressions, in a table of values and on a graph.

A linear relation is

Example

Mass, m (g)	0	100	200	300
Cost, C (¢)	0	200	400	600

- What is the difference in value for consecutive m – values?
- What is the difference in value for consecutive C – values?
- How can you describe, in words, the relationship between the values for m and C ?
- How are m and C related? Write an expression for C in terms of m .

We have three methods of representing a linear relationship.

1.

2.

3.

Example Consider each of the table of values.

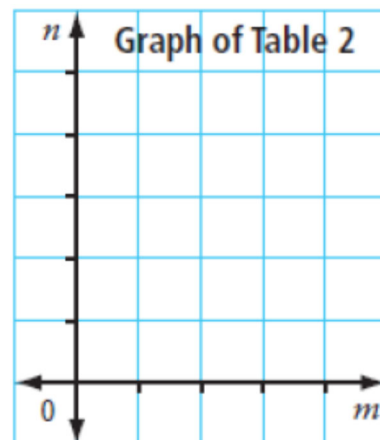
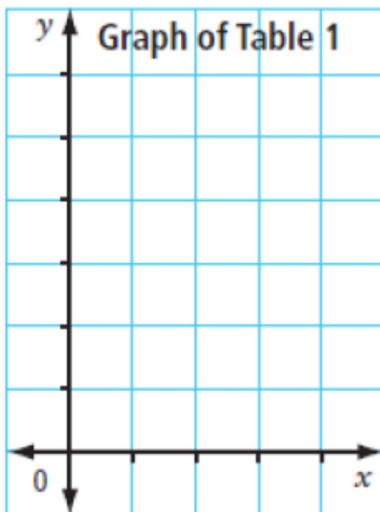
Table 1

x	2	4	6	8
y	3	7	11	15

Table 2

m	1	2	3	4
n	1	4	7	8

- What is the pattern in the values for the first variable in each table?
- What is the difference in consecutive values for the second variable in each table? Is the difference within each table the same?
- Graph each set of ordered pairs. Which relations are linear?



- How does your answer in part c. compare to your answer in part b?

Conclusion