

First, Last Name _____ Core: 1 2 3 4 Date:

Activity 3 (Handout 2: Seating a Party)

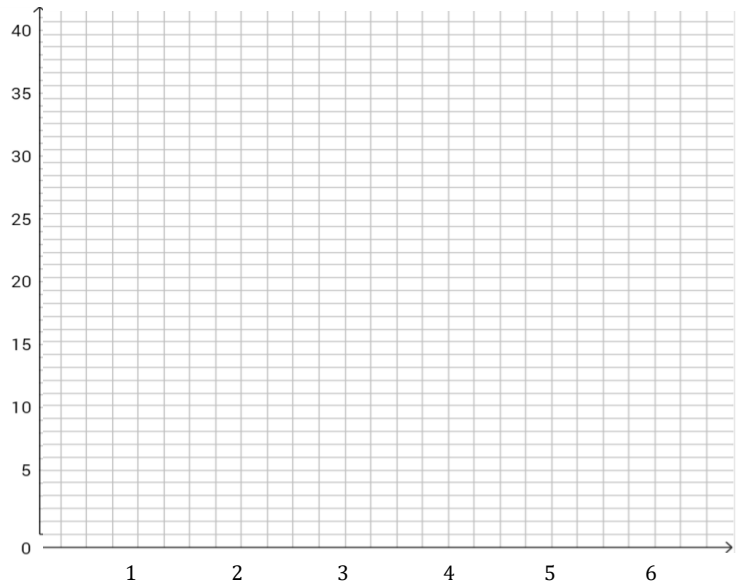
Andre is setting up rectangular tables for a party. He can fit 6 chairs around a single table. Andre lines up 10 tables end-to-end and tries to fit 60 chairs around them, but he is surprised when he cannot fit them all.

Part 1: Write an equation for the relationship between the number of chairs c and the number of tables t when:

a. the tables are apart from each other:



t	c	(t, c)



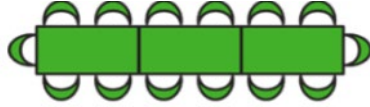
b. Write equation here: _____

c. Using the equation, how many tables will be needed to seat 360 guests?

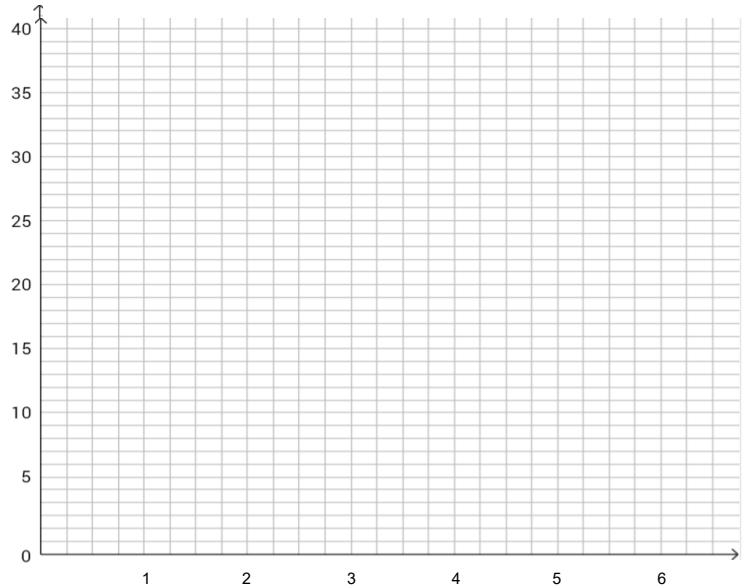
d. Is the number of tables proportional to the number of chairs? Explain

Part 2: Write an equation for the relationship between the number of chairs c and the number of tables t when:

a. the tables are placed end-to-end:



t	c	(t, c)



b. Write equation here: _____

c. Using the equation, show the number of tables needed to seat 360 guests?

d. Is the number of tables proportional to the number of chairs? Explain
