A. Lesson Context

BIG PICTURE of this UNIT:	• What is meant by the term FUNCTIONS and how do we work with them? • mastery with working with basics & applications of linear functions • mastery with working with basics & applications of linear systems • understanding basics of function concepts and apply them to lines & linear systems		
CONTEXT of this LESSON:	Where we've been In Lesson 9, you practiced with writing equations to various word problems	Where we are Writing equations for problems involving 2 unknowns & using algebraic methods for solving systems	Where we are heading How do we apply the concept of "functions" to linear relations.

B. Lesson Objectives

a. Write pairs of equations to model real world scenarios involving two unknowns.
b. Reviewing algebraic methods for solving simultaneous linear equations (elimination & substitution)

C. Fast Five:

Use the substitution method to solve for x & y in this system: L_1: $2x - 4y = 20$ and L_2: $-2y = 9 + 2x$.

Use the elimination method to solve for x & y in this system: L_1: $-3x + 4y = 21$ and L_2: $5x + 8y = -2$.

D. Equation Writing: Speed Dating Activity

You will be given one word problem card. Your task is to:

a. Define variables that should be used to define your unknowns
b. Write two equations that should be used to model your word problem.

c. Then, using our "Speed Dating" format, you will sit across from your partner, exchange cards & then you will have 3 minutes to write the 2 new equations for your partners problem. After 3 minutes, you will rotate to meet your new partner & repeat the process of exchanging cards & writing new equations for the new problem.

Record your Problem #, your definitions of variables & your two equations on the following table:

Problem #	What will x represent?	What will y represent?	2 equations: