Lesson Context

BIG PICTURE of this UNIT:	 What are the most important components of "Problem Solving"? What are the major topics from linear that we have worked with, remember, and are fluent with? 		
	How do we apply the function concept to linear?		
	Where we've been	Where we are	Where we are heading
CONTEXT of this			
LESSON:	8 th Grade or IM 1, we	Today we begin our work with	How do fluent are we will
	have developed linear	IM 2. We will have a problem	linear functions and
	function skills. In this unit	solving focus all year and today	systems and can relate
	we hope to further our	we do just that. We will also	this to functions as a
	understanding of linear	start developing some linear	larger topic.
		functions.	

Lesson Objectives

Task 1: Problem Solving and Skills Focus

Task 2: Camel Problem

FAST FIVE: SKILLS Warm Up

1. Solve the following for x.
$$-\frac{2}{3}x + 7 = -3$$

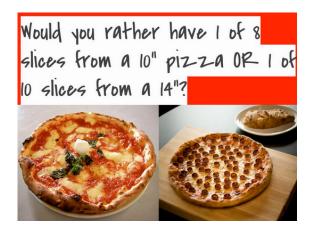
2. Solve the following for y.

$$8 - y = 3x - 1$$
 $3y = 2x - 9$

$$3y = 2x - 9$$

$$4y - 2x = 8x + 3$$

Task 1: Problem Solving and Skill Focus



EXTENSION: Into how many slices should the 14" pizza be cut so that one slice is less than 1/8th of the 10" pizza?

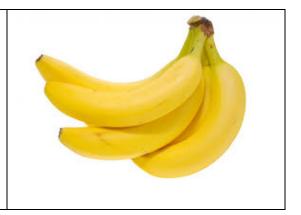
Task 2: Camel Problem

Please work in your groups to solve this problem. Show your work with pictures, charts... anything. Your **process and solution** must be understandable by simply looking at your work.

The Problem...







There is a Camel on the edge of a 1000 km wide desert. Beside the camel is a pile of 3000 bananas. The camel can carry at most 1000 bananas at a time. For every km it walks it has to eat one banana.

What is the largest amount of bananas the camel can end up with on the other side of the desert?

Questions?? Talk with your group and decide if there are clarifying questions you will need to ask before you can complete this problem.

Your goal!! Solve the problem as best as you can. Come up with pictures and charts that show your answer.

Extension Questions:

- How do you know if your solution is the "correct" answer?
- How does the problem change if you have 6000 bananas and the desert is 2000 km wide?
- How does the problem change if you have **b** bananas and the desert is **w** km wide?