# Lesson 6.4: Applying Linear Equations

#### **Targets**

- 1. I can solve linear equation word problems.
- 2. I can solve linear equations with segmented addition.

#### **Basic Linear Equation Word Problem**

First attempt this problem on your own. Then watch the video and copy his notes.

- Marcia has just opened her new computer store. She makes \$27 on every computer she sells and her monthly expenses are \$10,000.
- What is the minimum number of computers she needs to sell in a month to make a profit.

Your attempt:	<u>Video Notes:</u>
Write an equation that represents this situation:	Write an equation that represents this situation:
Now find the minimum number of computers:	Now find the minimum number of computers:

### **Linear Equation Word Problem**

First attempt this problem on your own. Then watch the video and copy his notes.

- MacDonald had a farm with a certain number of orange trees. He had to cut down 5 trees to control insects. Each of the remaining trees produced 210 oranges producing a total harvest of 41,790 oranges.
- How many trees did MacDonald's farm have initially?

Your attempt:	<u>Video Notes:</u>
Write an equation that represents this situation:	Write an equation that represents this situation:
Now find the number of trees:	Now find the number of trees:

## Khan Activity: <u>Linear Equation Word Problems</u>

Complete this activity on Khan.

## **Linear Equation Using Segments**

First attempt this problem on your own. Then watch the video and copy his notes.

 $\bar{K}$ 

Video Notes:

- JL = 114

Your attempt:

 $\bullet \quad KL = 9x + 9$ 



Find KL Find KL

## Khan Activity: Equation Practice with Segment Addition

Complete this activity on Khan.

#### **Exit Ticket**

- 1. Have all your notes filled out above.
- 2. Complete the following Khan Academy Activities:
  - a. <u>Linear Equation Word Problems</u>
  - b. Equation Practice with Segment Addition