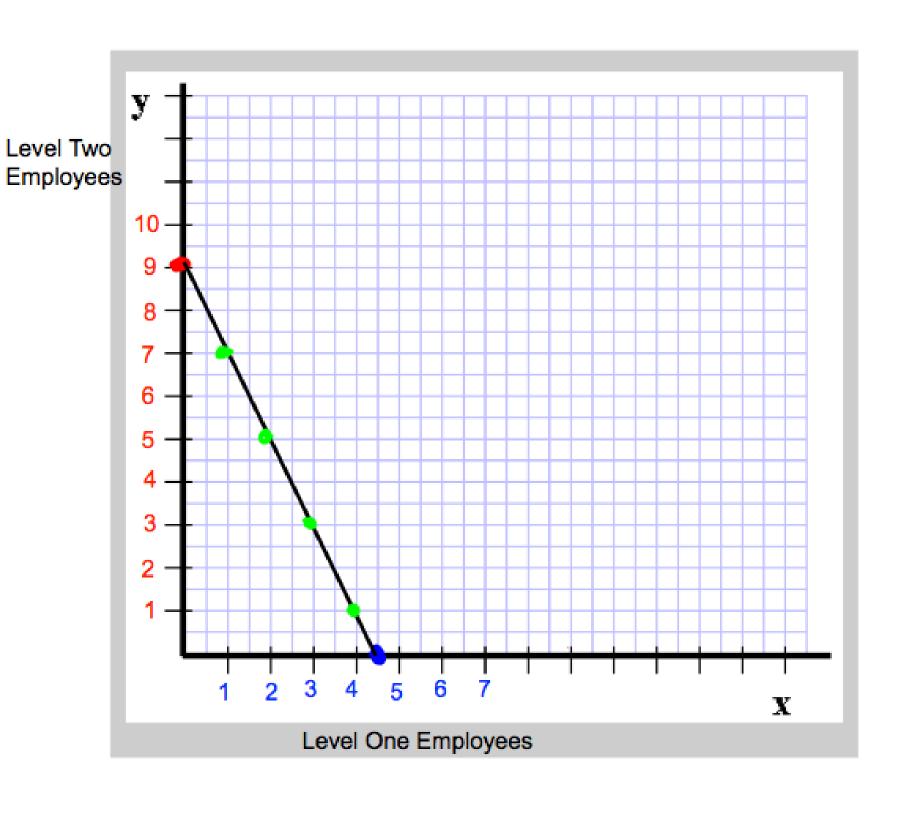
## Story Problems: Using Equations and Intercepts to Solve

At a local store, Level 1 employees earn \$48,000 and Level 2 employees earn \$24,000. Write a linear equation that can be used to determine how many employees at each level the company can hire for \$216,000. Graph the equation using intercepts. Then, find two possible solutions.

Linear Equation 
$$48000 \times + 24000 = 216000$$
  
Finding the X-Intercept  $(4.5, 0)$   $\times 17$ 



## Possible Solutions include:

- 4 Level 1 employees and 1 Level 2 employee.
- 3 Level 1 employees and 3 Level 2 employees.
- 2 Level 1 employees and 5 Level 2 employees.
- 1 Level 1 employees and 7 Level 2 employees.
- 0 Level 1 employees and 3 Level 2 employees.