Fixed and Variable

① A company offers jeans for $24 each and the shipping charges for the entire order is $13. How many jeans do you buy if your order costs $115?

① Let x = variable (what is changing?)
   Let x = # of jeans

② Add or Subtract the fixed amt.

$$24 + 13x$$

③ Make an equation/solve

$$\begin{aligned} 2\cancel{4} + 13x &= 115 \\ -\cancel{24} &\quad -24 \\ \hline 13x &= 91 \\ x &= 7 \end{aligned}$$

④ Answer question:
   7 prs of jeans

② The cost of renting the movie theater for a birthday party is $100 plus $6.50 per guest. Is $250 enough money for 20 guests to come?

Let x = # of guests

$$100 + 6.5x = 250$$
$$-100 \qquad\qquad -100$$

$$6.5x = 150$$

$$x = 23.08$$

yes, it is enough!