

7) $C = \#$ of calculators

$n = \#$ of notebooks

$$\text{Sam} \rightarrow (4C + 6n = 42) - 6$$

$$\text{Stephanie} \rightarrow (6C + 5n = 55) - 4$$

$$-24C - 36n = -252$$

$$24C + 20n = 220$$

$$\hline -16n = -32$$

$$n = 2$$

$$n = 2 \Rightarrow 4C + 6(2) = 42$$

$$4C + 12 = 42$$

$$4C = 30$$

$$C = 7.50$$

calculators - \$7.50 each
notebooks - \$2 each

$$\checkmark 6(7.50) + 5(2)$$

$$45 + 10 = 55 \checkmark$$

8) $X = \#$ of ice cream bars

cost/expenses = profit/sales

$$0.2X + 800 = 0.6X$$

$$-0.2X$$

$$-0.2X$$

$$\hline 800 = 0.4X$$

$$2000 = X$$

Lamese must sell 2000 ice cream bars to break even.