Profit (Acc Only)

① A moving company was hired to take clay pots to a florist shop. The florist will pay the moving company a $500 fee, plus $3 for every pot that is delivered safely. The moving company must pay the florist $5 each for any pots broken. 30 pots were broken, but the florist was still able to give the moving co. a check for $4699. How many pots were transported?

Formula to use: Profit = Income - Expenses

$$P = I - E$$

Let x = # pots

$$4699 = 500 - 40$$
$$3x$$

$$4699 = 500 + 3x - 40$$
$$+40 \qquad\qquad +40$$

$$4739 = 500 + 3x$$
$$-500 \qquad -500$$

$$\frac{4239}{3} = \frac{3x}{3}$$

$$\boxed{x = 1413 \text{ pots}}$$

Profit (Acc Only)

② Bob and Rob own a hamburger store called "Two Guys Burger & Fries." They want to make a profit of $2500 this week. Their problem is that they must spend $2.25 per burger for the food ingredients and they must pay $200 for advertising and $500 to rent the space. If they sell the burgers for $7.25 each, how many must they sell to make $2500?

Formula: Profit = Income - Expenses

$$P = I - E \qquad \text{Let } x = \# \text{ burgers}$$

$$2500 = 7.25x - 2.25x - 200 - 500$$

$$2500 = 7.25x - 2.25x - 700$$

$$2500 = 5x - 700$$

$$\underset{\underline{}}{700} \qquad \underset{\underline{}}{+700}$$

$$3200 = 5x$$

$$\boxed{x = 640 \text{ burgers}}$$