

$$\begin{aligned} &Ax \quad 3y \quad C \\ &-2x = 5y + 9 \\ &3x + 11y = 4 \end{aligned}$$

$$\begin{aligned} 3 \left(\begin{array}{l} -2x - 5y = 9 \\ 3x + 11y = 4 \end{array} \right) & \quad -6x - 15y = 27 \\ 2 \left(\begin{array}{l} -2x - 5y = 9 \\ 3x + 11y = 4 \end{array} \right) & \quad (+) \quad \underline{6x + 22y = 8} \\ & \quad \quad \quad 7y = 35 \end{aligned}$$

$$-2x - 5(5) = 9 \qquad y = 5$$

$$-2x - 25 = 9$$

$$-2x = 34$$

$$x = -17$$

$$(-17, 5)$$

A BUSINESS WITH TWO LOCATIONS BUYS 7 LARGE AND 5 SMALL DELIVERING TRUCKS. LOCATION A RECEIVES 3 LARGE AND 2 SMALL FOR \$ 270,000. LOCATION B RECEIVES 4 LARGE AND 3 SMALL FOR \$ 375,000.

WHAT IS COST OF EACH SIZE?

	x - \$ large	y - \$ small	
	Large	Small	\$
A	3	2	270,000
B	4	3	375,000

$$\sqrt{-3 (3x + 2y = 270,000)}$$

$$\begin{array}{l} -3 \left(\begin{array}{l} 3x + 2y = 270,000 \\ 4x + 3y = 375,000 \end{array} \right) \end{array}$$

$$-9x - 6y = -810,000$$

$$8x + 6y = 750,000$$

$$\hline -x = -60,000$$

$$x = 60,000$$

$$3(60,000) + 2y = 270,000$$

$$180,000 + 2y = 270,000$$

$$2y = 90,000$$

$$y = 45,000$$

Large Truck \$ 60,000

Small Truck \$ 45,000