1. 18-7

$y = 6x - 7$

$4x - 3y = -21$

$4x - 3(6x - 7) = -21$

$4x - 18x + 21 = -21$

$-14x + 21 = -21$

$-21 \quad -21$

$-14 = -42$

$x = 3$

$y = 11$

$(3, 11)$

2.

$10M + 8N = 42$

$4M - 7N = -24$

$70m + 56n = 294$ $(1, 4)$

$+ 32m - 56n = -192$

$102m = 102$

$102 \quad 102$

$m = 1$

$n = 4$

3. You went to the store to buy some apples and pears. You bought 11 pieces of fruit. You spent a total of $6.89. Apples cost $0.49 each and pears cost $0.79 each. Write and solve a system of equations to find the number of each you bought.

$(a + p = 11)$

$0.49a + 0.79p = 6.89$

$0.49(11 - p) + 0.79p = 6.89$

$5.39 - 0.49p + 0.79p = 6.89$

$\frac{0.3p}{0.3} = \frac{1.5}{0.3}$

$p = 5$

$a = 6$

$(6, 5)$