1. Coats cost \$60 and pants cost \$40. You have \$1000 to spend.

a. Use x to represent coats and y to represent pants. Write an equation to represent the combinations that will spend all \$1000.

$$60 \times + 40 \text{ y} = 1000$$

b. Come up with a combination of coats and pants that will spend all \$1000.

2. Determine which of the following ordered pairs are solutions to the equation 4x + 3y = 24.

3. Using the equation 4x + 3y = 24, fill in the blank for $(3, \frac{4}{7})$

$$4(3) + 3y = 24$$

$$12 + (12) = 24$$

$$3(4) = 12$$

$$4x + 3(2) = 2$$

$$4x + 3(2) = 2$$

$$4x + 6 = 24$$

$$-6 = -6$$

$$4x = 18$$

$$4$$

$$4 = 4$$

- 4. Alex is buying lunch for her friends. She buys everyone burgers and fries. Each burger costs \$6 and each order of fries costs \$2. Alex has a total of \$30 to spend.
 - a. Complete the table to show possible combinations of burgers and fries Alex could buy that would spend ALL of her money.

Burgers	1 46	3 418	LI \$24	5 \$2	ß
Fries	12 +\$24	6 5/2	3 🚜	0	<i>t</i> o
	A 7.5	\$20	\$70	\$	30

b. If burgers are represented by x and fries are represented by y, write an equation to represent the situation showing Alex has \$30 to spend. 6x + 2y = 30