

1. Let "c" be the cost of a carrot. Let "a" be the cost of an apple. Let "p" be the cost of a potato.

- a. Write an equation that would give you the total cost "t" of 7 apples, 14 carrots, 12 potatoes, and a \$1.29 sales tax.

$$t = 7a + 14c + 12p + 1.29$$

- b. What is the total cost if each apple is \$0.59, each carrot is \$0.19, and each potato is \$0.39?

$$\$12.76$$

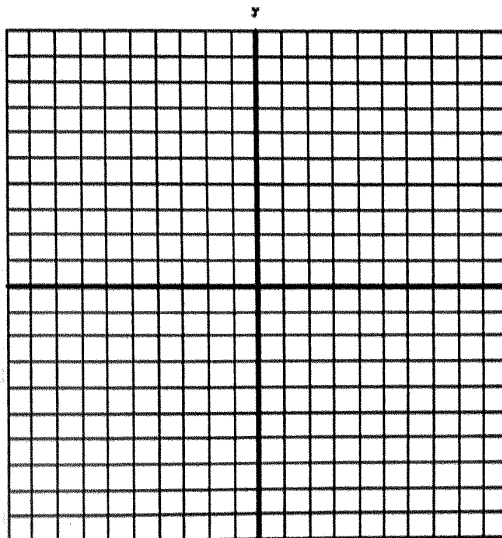
- c. What would be the cost of an apple if each carrot was \$0.17, each potato was \$0.35, and you paid a total of \$10.46?

$$\$0.37$$

2. Solve the system using any method. $2x + y = -3$

$$-3x - 4y = -13$$

$$(-5, 7)$$



3. You have two job offers:
- A. You get paid \$0.03 per second
 - B. You get paid \$107.50 per hour

Show work to provide evidence for which job offer you would accept if you work 5 days a week for 8 hours each day?

Choice A, show work
and know why

Solve for x.

4. $\frac{-4x+13}{5} > 3$

$x < -\frac{1}{2}$

5. $-2(3x + 2) < -8(x - 5)$

$x < 22$

6. Mr. Sacco went to Dunn Brothers this morning. A coffee costs \$2.25 and a muffin costs \$1.75. He also left a \$3 tip. Determine what each piece of the expressions means in context of the problem.

$$2.25c + 1.75m + 3$$

- a. 2.25 cost per coffee
- b. m # of muffins
- c. 1.75m total \$ of muffins
- d. 2.25c + 1.75m total cost for coffee and muffins
- e. 2.25c + 1.75m + 3 total cost (with tip)