## Solutions to Equations Practice

2 10

1. Is the point (2, 10) a solution to the equation 2x - y = 14?

No  $4-10=-6$

2. Is the point (5, 4) a solution to the equation 2x + 3y = 22?

Yes  5 4  $10+12=22$

3. Using the equation x + 3y = 9, find the missing variable for the following ordered pairs that make the equation true.

$3+3y=9$  $x+3y=9$  $x+3(5)=9$

$3+3(2)$  $x+15=9$

$3+6$  $-6+15=9$

9

a. (3, 2)  3y  $3+6=9$

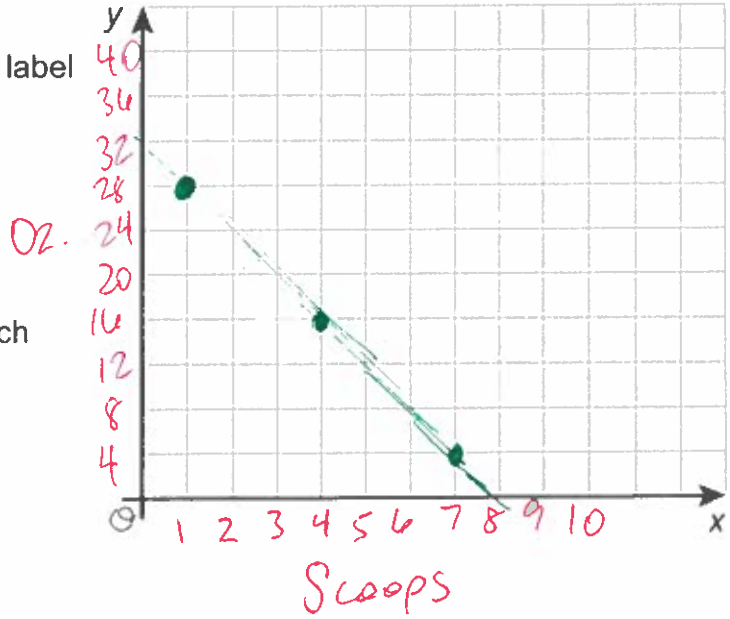
b. (-6, 5)

4. A store sells ice cream with assorted toppings. They charge $2.00 for each scoop of ice cream, plus 50 cents per ounce of toppings. You have $16 to spend on a glorious ice cream creation.

a. Complete the table showing different ways you can spend your $16.

| Scoops of ice cream (x) | | Ounces of toppings (y) | | |
|---|---|---|---|---|
| 1 | $2 | 28 | $14 | $16 |
| 7 | $14 | 4 | $2 | $16 |
| 4 | $8 | 16 | $8 | $16 |

b. Graph your points on the following graph. Be sure to label your x-axis and y-axis appropriately.




Oz.

c. Create an equation to match this situation.

$2x+0.50y=16$