

Aldine 9: Algebra Homework #39

www.aldine9math.weebly.com

Assigned

A 1/28 Wed
B 1/29 Thurs

Due

A 1/30 Fri
B 2/2 Mon

Name:

Period:

Choose the correct system of equations from the following situations.

- 1) Chase and Sara went to the candy store. Chase bought 5 pieces of fudge and 3 pieces of bubble gum for a total of \$5.70. Sara bought 2 pieces of fudge and 10 pieces of bubble gum for a total of \$3.60. Which system of equations could be used to determine the cost of 1 piece of fudge, f , and 1 piece of bubble gum, g ?

A $5f + 3g = 3.60$
 $2f + 10g = 5.70$

B $5f + 2g = 5.70$
 $3f + 10g = 3.60$

C $f + g = 22$
 $7f + 13g = 9.30$

D $5f + 3g = 5.70$
 $2f + 10g = 3.6$

- 2) The number of boys in Ms. Mershimer's classes was 18 less than twice the number of girls. She had a total of 111 students in her classes. Which system of equations will determine the number of boys, b , and the number of girls, g , in Ms. Mershimer's classes?

A $b = 2(g - 18)$
 $b + g = 111$

B $b = 2g + 18$
 $g = 111 - b$

C $b = 2g - 18$
 $b + g = 111$

D $g = 2b - 18$
 $b = 111 - g$

- 3) The perimeter of a rectangular garden is 72 feet. Which system of equations can be used to find the dimensions of the garden if its length, L , is 3 times its width, w ?

A $2L + 2w = 72$
 $L = w - 3$

B $2L + 2w = 72$
 $L = 3w$

C $Lw = 72$
 $L = w + 3$

D $L + w = 72$
 $L = 3w$

- 4) Jay purchased 3 CDs and 2 pairs of sunglasses for \$336. Will purchased 5 CDs and a pair of sunglasses for \$210. Which of the following models the situation, if x represents the number of CDs and y is the number of sunglasses?

F $\begin{cases} 336 = 3x + 2y \\ 210 = 5x + y \end{cases}$

G $\begin{cases} 210 = 3x + 2y \\ 336 = 5x + y \end{cases}$

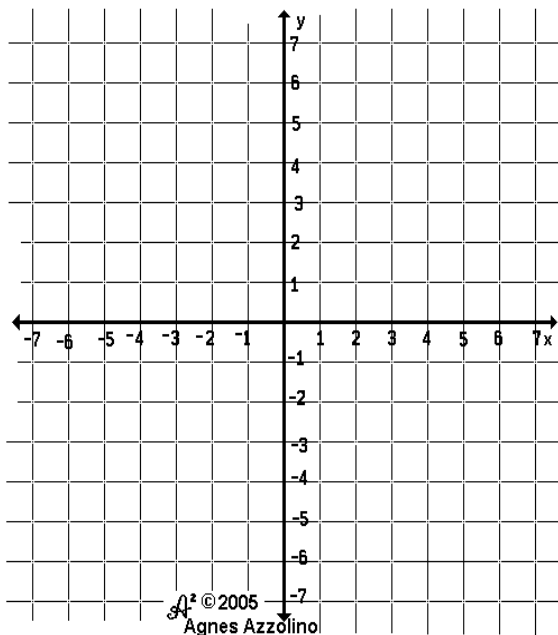
H $\begin{cases} 336 = 2x + 3y \\ 210 = x + 5y \end{cases}$

J $\begin{cases} 210 = 2x + 3y \\ 336 = x + 5y \end{cases}$

5) Solve the system by graphing.

$$y = 3x - 3$$

$$y = -x + 5$$



6) What is the value of x using the system below?

$$12x - 5y = -7$$

$$-10x + 5y = 5$$

7) Based on the tables, where do the 2 lines intersect?

Line A

-4	16
-3	12
0	0
1	-4
2	-8

Line B

-10	28
-8	24
-6	20
-4	16
-2	12

8) Draw a system (2 lines) with no solution, and both lines have a negative slope.

