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### Algebra 1 Yearlong Worksheet 17D

1)  $y = 4$   
 $-3x + 5y = 8$   
 (4, 4)

2)  $5x - 3y = 10$   
 $x = 2y - 12$   
 (8, 0)

3)  $4x - 2y = 14$   
 $-3x + 13 = -4y$   
 (3, -1)

4)  $6x + 9y = 1$   
 $2x + 3y = -6$   
 No Solution (parallel)

5)  $9x + 3y = -7$   
 $-6x - 4y = 1$   
 $(-\frac{25}{18}, \frac{11}{6})$

6)  $3x - 2y = 4$   
 $5x - 3y = -2$   
 (-16, -26)

- 7) Fred and Zach's ages together add up to 45. Fred's age is 6 more <sup>★</sup> than twice Zach's age. How old are both people?

$F = \text{Fred's age}$

$Z = \text{Zach's age}$

$$\textcircled{F} + Z = 45$$

$$\textcircled{F} = \underline{\underline{2Z + 6}}$$

$$(2Z + 6) + Z = 45$$

$$3Z + 6 = 45$$

$$3Z = 39$$

$$\textcircled{Z = 13} \text{ years old}$$

$$F = 2(13) + 6$$

$$F = 26 + 6$$

$$F = 32 \text{ years old}$$

8)

Two numbers have a difference of 10. The larger number minus twice the smaller number is -6.  
What are the two numbers?

$x =$  the first #

$a =$  the second #

$$x - a = 10 \rightarrow \textcircled{x = a + 10}$$

$$\textcircled{x} - 2a = -6$$

$$a + 10 - 2a = -6$$

$$-1a + 10 = -6$$

$$-1a = -16$$

$$\textcircled{a = 16}$$

$$x = 16 + 10$$

$$\textcircled{x = 26}$$

- 9) Angela is 8 years older than Bob now. In three years, Angela's age will be 5 less than twice Bob's age. How old are both people now?

$A = \text{Angela's age Now}$

$B = \text{Bob}$

$$A = B + 8$$

$$(A + 3) = 2(B + 3) - 5$$

$B = 10$  years old

$A = 18$  years old

10)

Yesterday, Mr. Buchanan ate numerous bags of Doritos and peanut M&M's. The number of bags of M&M's he ate was three more than twice the number of bags of Doritos he ate. It is also true that five times the number of bags of Doritos increased by twice the number of bags of M&M's he ate is sixty. Find the number of bags of each product that Mr. B consumed.

$\text{☺} = \# \text{ of bags of Doritos}$

$M = M \& M's$

$$M = 2\text{☺} + 3$$

$$5\text{☺} + 2M = 60$$