

Name \_\_\_\_\_

## SYSTEMS OF EQUATIONS #1

**Directions:** Solve each of the *system of equations* below. Test each possible solution by replacing  $x$  and  $y$  with each possible solution. The coordinate pair that makes both equations true is the only correct solution. Circle the correct answer.

Examples:  $x + y = 12$

$$2x + y = 16$$

(4,8) is the only solution because

$$4 + 8 = 12 \text{ and}$$

$$2(4) + 8 = 16$$

$$x + y = 20$$

$$4x + 5y = 100$$

(0,20) is the only solution because

$$0 + 20 = 20 \text{ and}$$

$$4(0) + 5(20) = 100$$

1)  $x + y = 12$   
 $2x + y = 20$

- a) (2,6)
- b) (8,4)
- c) (10,2)

2)  $x + y = 10$   
 $2x + y = 22$

- a) (-8,1)
- b) (2,6)
- c) (12,-2)

3)  $3x + y = 26$   
 $2x + y = 16$

- a) (6,-4)
- b) (8,-4)
- c) (10,-4)

4)  $x + y = 14$   
 $2x + y = 16$

- a) (4,6)
- b) (2,12)
- c) (6,8)

5)  $2x + y = 30$   
 $x - y = 0$

- a) (10,10)
- b) (8,12)
- c) (10,2)

6)  $2x + y = 42$   
 $x + 2y = 24$

- a) (-8,1)
- b) (2,6)
- c) (20,2)

7)  $2x + y = 16$   
 $x + y = 16$

- a) (0,16)
- b) (8,8)
- c) (10,-6)

8)  $5x + y = 104$   
 $x + y = -16$

- a) (40,26)
- b) (30,-46)
- c) (26,8)

9)  $x - y = 13$   
 $2x + y = 20$

- a) (11,-2)
- b) (13,2)
- c) (-10,3)

10)  $3x + 4y = 11$   
 $2x - y = 22$

- a) (9,-4)
- b) (4,1)
- c) (2,-3)

11)  $6x - 2y = 22$   
 $2x + y = 14$

- a) (6,-4)
- b) (8,-4)
- c) (5,4)

12)  $x + y = 11$   
 $2x - y = 16$

- a) (9,2)
- b) (8,3)
- c) (6,8)

13)  $2x + y = -10$   
 $5x + y = 20$

- a) (10,-10)
- b) (10,-30)
- c) (-10,20)

14)  $2x + y = 42$   
 $3x - y = 158$

- a) (-8,14)
- b) (22,16)
- c) (40, -38)

15)  $2x + y = 6$   
 $x + y = 6$

- a) (6,0)
- b) (3,3)
- c) (0,6)

16)  $2x + y = 14$   
 $2x - y = -18$

- a) (-1,16)
- b) (0,-46)
- c) (26,8)