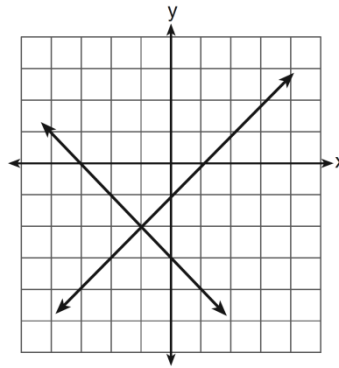


UNIT 3**LESSON 6.5**

Do Now: What is the solution of the system of equations shown in the graph below?

- 1) $(1, 0)$ and $(-3, 0)$
- 2) $(0, -3)$ and $(0, -1)$
- 3) $(-1, -2)$
- 4) $(-2, -1)$

**AIM: What are Multipliers?**

1. Consider the following compound sentence: $y = -x + 10$ and $y = 2x + 1$.
 - a. How many same solutions do these lines have? Explain your answer.
 - b. Multiply both equations by two.
 - c. How many same solutions do the new equations have? Explain your answer.
2. Consider the following compound sentence: $4y = -4x + 40$ and $5y = 10x + 5$.
 - a. How many same solutions do these lines have? Explain your answer.

3. Which system of equations has the same solution as the system below?

$$2x + 2y = 16$$

$$3x - y = 4$$

1) $2x + 2y = 16$

$$6x - 2y = 4$$

2) $2x + 2y = 16$

$$6x - 2y = 8$$

3) $x + y = 16$

$$3x - y = 4$$

4) $6x + 6y = 48$

$$6x + 2y = 8$$

4. A system of equations is given below. Which system of equations does *not* have the same solution?

$$x + 2y = 5$$

$$2x + y = 4$$

1) $3x + 6y = 15$

$$2x + y = 4$$

2) $4x + 8y = 20$

$$2x + y = 4$$

3) $x + 2y = 5$

$$6x + 3y = 12$$

4) $x + 2y = 5$

$$4x + 2y = 12$$

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LESSON 6.5

EXIT TICKET

Which pair of equations could not be used to solve the following equations for x and y ?

$$4x + 2y = 22$$

$$-2x + 2y = -8$$

1) $4x + 2y = 22$

$$2x - 2y = 8$$

2) $4x + 2y = 22$

$$-4x + 4y = -16$$

3) $12x + 6y = 66$

$$6x - 6y = 24$$

4) $8x + 4y = 44$

$$-8x + 8y = -8$$

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LESSON 6.5

EXIT TICKET

Which pair of equations could not be used to solve the following equations for x and y ?

$$4x + 2y = 22$$

$$-2x + 2y = -8$$

1) $4x + 2y = 22$

$$2x - 2y = 8$$

2) $4x + 2y = 22$

$$-4x + 4y = -16$$

3) $12x + 6y = 66$

$$6x - 6y = 24$$

4) $8x + 4y = 44$

$$-8x + 8y = -8$$