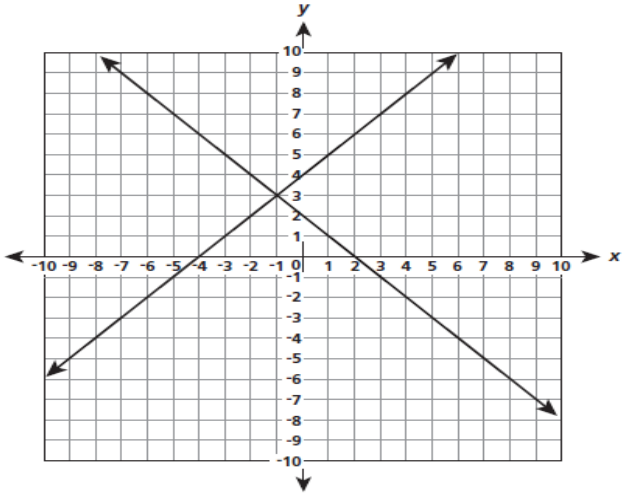
Name:_____ Date:_____

8.EE.8a

____1. Lucy graphed a system of linear equations. (2013)



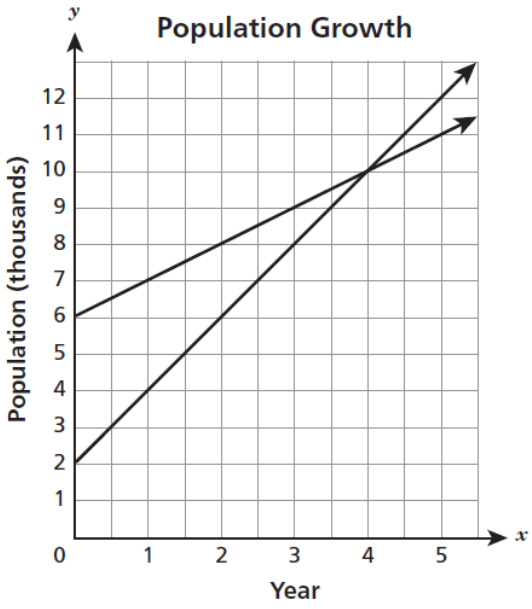
What is the solution to the system of equations?

A. (−4, 2) B. (−1, 3) C. (0, 2) D. (2, 4)

____2. The population growth of two towns over a period of five years is represented by the system of equations below, both algebraically and graphically. (2014)

$y = x + 6$

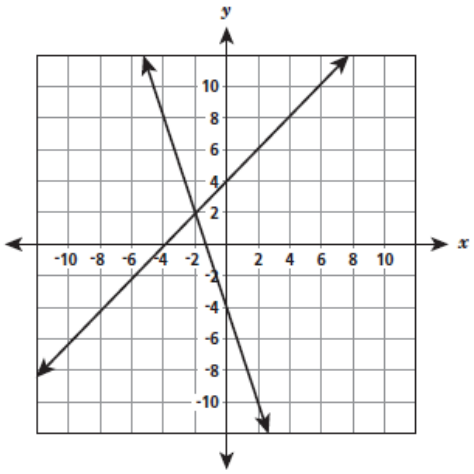
$y = 2x + 2$



Which ordered pair is the solution to the system of equations?

A. (2, 6) B. (4, 10) C. (6, 2) D. (10, 4)

_____3. Which statement explains why the point (-2, 2) is the solution to the system of linear equations shown below? (calculator allowed) (2015)



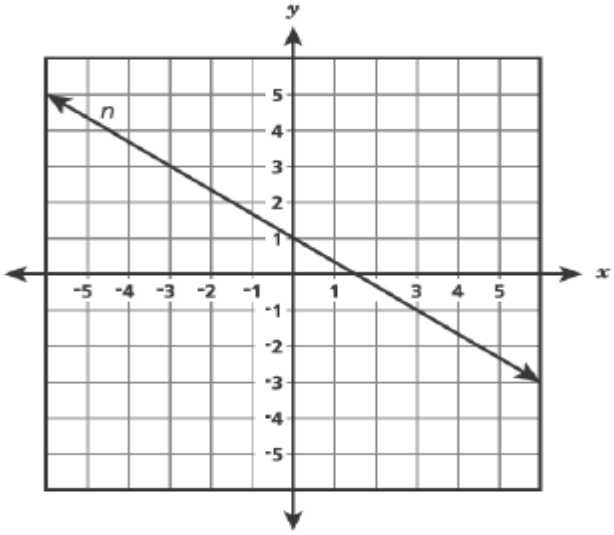
A. It lies on the graph of only one of the equations.

B. It lies in the second quadrant of the coordinate plane.

C. It is the only point that satisfies both equations simultaneously.

D. It is one of many points that satisfies both equations simultaneously.

_____4. The line *n* is shown on the grid below. (2017) no calculator



Line *q* will be graphed on the same grid. The only solution to the system of linear equations formed by the line *n* and *q* occurs when x = $\frac{3}{2}$ and y = 0. Which equation could represent line *q* ?

A. y = $\frac{3}{2}x$

B. y = $\frac{4}{3}x - 2$

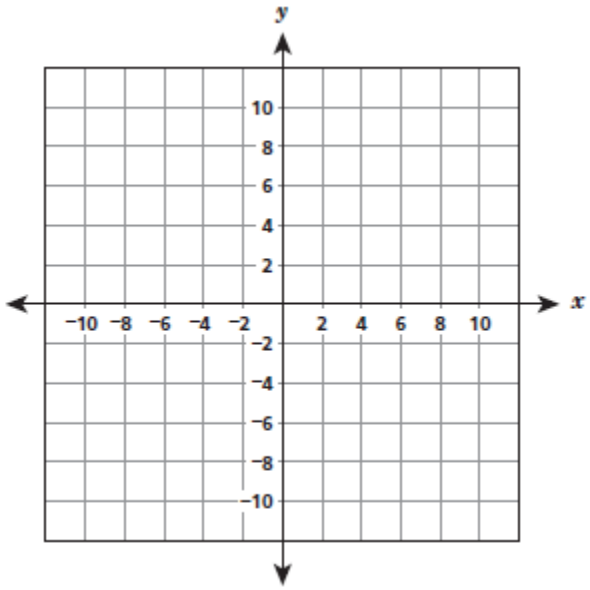
C. y = $-\frac{5}{2}x + 1$

D. y = $-\frac{2}{3}x + \frac{3}{2}$

5. Graph and label the given system of equations on the coordinate grid shown below. (2014)

$y = \frac{1}{2}x + 2$

$y = x - 1$



What is the solution to the system of equations?

Answer _____