***MAFS.8.EE.3 Analyze and solve linear equations and pairs of simultaneous linear equations.***

**MAFS.8.EE.3.8** Analyze and solve pairs of simultaneous linear equations.

**MAFS.8.EE.3.8a** Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

**MAFS.8.EE.3.8b** Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6.

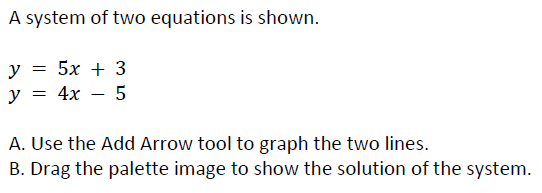
**MAFS.8.EE.3.8c** Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.

**Item Type**

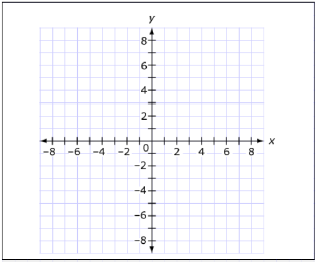
**Grid**

*Teachers, in order for students to be able to practice this Technology-Enhanced Item (TEI) Type for the FSA, they should be able to simulate the “Add Arrow Tool” in Part A by clicking on and then dragging the given arrows to the graph (extending/decreasing the length, if needed) to the correct locations on the grid.*

*For Part B, students should answer by clicking on the image of the X and then dragging the image to the grid in order to mark the solution.*

****

**X**

****