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

**MAFS.8.EE.3.7** Solve linear equations in one variable.

**MAFS.8.EE.3.7a** Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form 𝑥=𝑎 , 𝑎=𝑎, or 𝑎=𝑏 results (where 𝑎 and 𝑏 are different numbers).

**MAFS.8.EE.3.7b** Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

**Item Type**

**Equation Editor**

*Teachers, in order for students to be able to practice this Technology-Enhanced Item (TEI) Type for the FSA, they should access the given hyperlink. The” Equation Editor” tutorial on the FSA portal can be used to solve this sample item. After the initial link to the portal, students would need to click the* ***green*** *Next* ***arrow****.*

[*http://demo.tds.airast.org/eqtutorial/?c=florida\_pt&language=true#*](http://demo.tds.airast.org/eqtutorial/?c=florida_pt&language=true)

***Students would then need to select two options from the drop down menus.***

***NOTE: Based on the given information in the item, the teacher would need to direct students as to which selection to make in the Question drop down menu because the Editor may be slightly different for each.***

 *Grade: (6-12) and Question:*

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