Grade: 8 Math | **Mastery Check**
1Benchmark #: 8.2.3.A3 | **4**
Functions

State Language:
Translates between the numerical, tabular, graphical, and symbolic representations of linear relationships with integer coefficients constants.

Student Friendly Language:
Solves functions using graphs, tables, equations.

Concept (Students will know):
- And understand what a function is. (The definition)
- Know that functions can be represented in a number of ways.
- How to read tables and interpret them, translating them into other graphical representations, such as graphs, equations, ordered pairs, and the written word.
- Know how to translate and interpret an equation into a table, graph and other graphical representations.
- How to translate the written word into graphical representations, such as graphs, tables, ordered pairs, and equations.
- Know that all representations of a function show the same information.
- Differentiate between all types of graphical representations.
- Make connections between information in a function.

Skills (Students will do):
- Solve functions by substituting the information into a graphical representation, including graphs, table, and equations.
- Read and interpret a real-world problem and translate it into a graph, table, equation, or ordered pair.
- Translate an equation, words, table, graph, or ordered pairs into other types of graphical representations.
- Show the relationships between all the representations of the functions.
- Make connections and solve non-routine problems of functions.

DOK Level:
3

Big Ideas:
The students Understand that a real-world problem can be organized into a function, a relationship between two pieces of information, using different representations. All graphical representations of the same function will show that same information.

Essential Questions:
- What is a function?
- What are all the graphical representations of a function?
- How do you translate information into all of the graphical representations of a function?
- How you differentiate between the graphical representations of the function?

Core Materials
Glencoe Pre-Algebra test book

Supplemental Materials:
Resource workbooks from the text.
Teacher-generated projects
Study Island
Other Technology

Teaching Strategies:
The students could take notes
Guided practice
Scaffolding

Mastery Check Items: