**Math 8**

**Winter Student**

**Enrichment Packet**

***ANSWER KEY***

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PRINCE GEORGE’S COUNTY PUBLIC SCHOOLS

Office of Academic Programs

Department of Curriculum and Instruction

**™**

**Math 8 Winter Enrichment Choice Board**

**Answer Key**

**Activity 1**

Student answers will vary. See activity directions and rubric.

**Activity 2**

1. The test has 5 multiple choice questions.

The problem can be solved by solving the system:

$$\left\{\begin{array}{c} x+y =20\\ 3x+11y=100\end{array}\right.$$

2. Danielle earns a profit of $7 for each bracelet and $26 for each necklace.

The problem can be solved by solving the system:

$$\left\{\begin{array}{c}2x+4y=118\\4x+4y=132\end{array}\right.$$

**Activity 3**

For *a set of ordered pairs* or a *table*, a relation is a function if no *x* value has more than one unique *y* value assigned to it. A relation is NOT a function if an *x* value has more than one *y* value assigned to it. For example, the relation (2, 3), (4, 5), and (6, 7) constitutes a function.

For a *graph line*, a relation is a function if the line never has a segment that is vertical line. A relation is NOT a function if the line has a segment that is vertical line.

For a *mapping diagram,* if more than one line coming from an input value maps to different output values, then the relation is NOT a function. Otherwise, the relation is a function.

**Activity 4**

See activity directions and rubric.

**Activity 5**

Student answers will vary. See activity directions and rubric.

**Activity 6**

Solution match the words: *The teacher told him it was a piece of cake*.

**Activity 7**

* The solution for the first system is (1, -2)
* The solution for the second system is (3, -5)

**Activity 8**

Student answers will vary. See activity directions and rubric.

**Activity 9**

Student answers will vary. See activity directions and rubric.