

Math 8

Winter Enrichment Packet

ANSWER KEY



PRINCE GEORGE'S COUNTY PUBLIC SCHOOLS
Office of Academic Programs
Department of Curriculum and Instruction

Math 8 Winter Enrichment Packet 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:

$$\{x + y = 20 \quad 3x + 11y = 100$$

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

The problem can be solved by solving the system:

$$\{2x + 4y = 118 \quad 4x + 4y = 132$$

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.