

**NEW YORK STATE
COMPONENT RETEST**

**MATHEMATICS A
COMPONENT 6
MODULE 1**

MONDAY, MAY 18, 2009

**SCORING KEY
AND
RATING GUIDE**

Multiple Choice Key

(1)	4
(2)	3
(3)	1
(4)	2
(5)	4
(6)	1

Math A Component Retest
May 2009
Component 6, Module 1

Key to Multiple-Choice Questions

(1)	4
(2)	3
(3)	1
(4)	2
(5)	4
(6)	1

Rubrics

(7)

[4] $\frac{46}{64}$ or an equivalent answer, and appropriate work is shown. (Drawing a triangle is *not* required for full credit.)

[3] Appropriate work is shown, but one computational or graphing error is made.

[2] Appropriate work is shown, but two or more computational or graphing errors are made.

or

[2] Appropriate work is shown, but one conceptual error is made, such as finding $\frac{18}{64}$ or an equivalent answer, the probability of landing in the triangle.

or

[2] Both areas are calculated correctly and 46, the difference is found, but the probability is not found.

[1] Appropriate work is shown, but one conceptual error and one computational or graphing error are made.

or

[1] Both areas are calculated correctly, but no further correct work is shown.

or

[1] $\frac{46}{64}$ or an equivalent answer, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(8)

[4] $\frac{8}{12}$ or an equivalent answer, and a correct tree diagram or sample space is shown.

[3] Appropriate work is shown, but one computational error is made.

or

[3] A correct tree diagram or sample space is shown and 8, but the answer is not expressed as a probability.

[2] Appropriate work is shown, but two or more computational errors are made.

or

[2] Appropriate work is shown, but one conceptual error is made.

or

[2] An incorrect tree diagram or sample space with at least 6 pairs is shown, but an appropriate probability is found.

or

[2] A correct tree diagram or sample space is shown, but no further correct work is shown.

[1] Appropriate work is shown, but one conceptual error and one computational error are made.

or

[1] The counting principle is used to find 12, the number of ways the coins can be chosen, but no further correct work is shown.

or

[1] $\frac{8}{12}$ or an equivalent answer, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(9)

[4] 3 mint, 6 peanut butter, and 11 chocolate, and $\frac{110}{380}$ or an equivalent answer, and appropriate work is shown, such as an algebraic solution, or trial and error with at least three trials and appropriate checks to find the number of candies.

[3] Appropriate work is shown, but one computational error is made.

or

[3] 3 mint, 6 peanut butter, and 11 chocolate, and $\frac{110}{380}$ or an equivalent answer, but only two trials and appropriate checks are shown.

or

[3] 3, 6, and 11, and $\frac{110}{380}$ or an equivalent answer and appropriate work is shown, but the types of candy are not identified or are identified incorrectly.

[2] Appropriate work is shown, but two or more computational errors are made.

or

[2] Appropriate work is shown, but one conceptual error is made.

or

[2] Appropriate work is shown to find 3 mint, 6 peanut butter, and 11 chocolate.

or

[2] 3 mint, 6 peanut butter, and 11 chocolate, and $\frac{110}{380}$ or an equivalent answer, but only one trial with an appropriate check is shown.

or

[2] The trial-and-error method is attempted, and at least six systematic trials and appropriate checks are shown, but no solution is found.

[1] Appropriate work is shown, but one conceptual error and one computational error are made.

or

[1] A correct equation is solved for x , but no further correct work is shown.

or

[1] 3 mint, 6 peanut butter, and 11 chocolate, and $\frac{110}{380}$ or an equivalent answer, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.