

**NEW YORK STATE
COMPONENT RETEST**

**MATHEMATICS A
COMPONENT 7
MODULE 2**

FRIDAY, MAY 19, 2006

**SCORING KEY
AND
RATING GUIDE**

Multiple Choice Key

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

Math A Component Retest
May 2006
Component 7, Module 2

Key to Multiple-Choice Questions

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

Rubrics

(7)

[4] Luxury = 11, comfort = 22, thrifty = 33, basic = 33, and appropriate work is shown, such as solving the inequality $x + 2x + 3x + 3x \geq 99$ or solving an equation or trial and error with at least three trials and appropriate checks.

[3] A correct inequality or equation is written, but one computational error is made, but four appropriate values are found.

or

[3] A correct inequality or equation is written and solved for x , but only two or three of the four solutions are found correctly.

or

[3] 11, 22, 33, and 33, and appropriate work is shown, but the solutions are not labeled or are labeled incorrectly.

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

or

[2] Appropriate work is shown, but one conceptual error is made, such as finding a solution of 10 or 12 for the number of luxury cars.

or

[2] The trial-and-error method is used to find the correct solution, but only two trials and appropriate checks are 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.

or

[2] A correct inequality or equation is written and solved for x , but no further correct work is shown.

or

[2] An incorrect inequality or equation is solved appropriately, and four appropriate solutions are found.

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

or

[1] A correct inequality or equation is written, but no further correct work is shown.

or

[1] Luxury = 11, comfort = 22, thrifty = 33, basic = 33, but no work or only one trial with an appropriate check is shown.

[0] Luxury = 11 *or* comfort = 22 *or* thrifty = 33 *or* basic = 33, but no work is shown.

or

[0] 11, 22, 33, and 33, but no work is shown, and the solutions are not labeled or are labeled incorrectly.

or

[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] Almonds = \$4 and cashews = \$5, and appropriate work is shown, such as the equations $5A + C = 25$ and $3A + 3C = 27$ or trial and error with at least three trials and appropriate checks.

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

or

[3] Appropriate work is shown, but the answers are not labeled or are labeled incorrectly.

or

[3] Appropriate work is shown, but only the cost of the almonds or the cashews is found.

[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] The trial-and-error method is used to find the correct solution, but only two trials and appropriate checks are 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.

or

[2] A correct system of equations is written, but no further correct work is shown.

or

[2] An incorrect system of equations of equal difficulty is solved appropriately.

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

or

[1] Almonds = \$4 and cashews = \$5, but no work or only one trial with an appropriate check is shown.

[0] Almonds = \$4 *or* cashews = \$5, but no work is shown.

or

[0] \$4 and \$5, but no work is shown, and the answers are not labeled or are labeled incorrectly.

or

[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] $(-3,4)$ and $(1,8)$ or equivalent answers, and appropriate algebraic work is shown, such as $x + 7 = x^2 + 3x + 4$.

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

or

[3] Appropriate algebraic work is shown, but only one solution is identified.

or

[3] Appropriate algebraic work is shown, but only both x -coordinates or only both y -coordinates are found.

[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] Correct substitution results in $x^2 + 2x - 3 = 0$, but no further correct work is shown.

or

[2] $(-3,4)$ and $(1,8)$, but a method other than an algebraic solution is used.

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

or

[1] $(-3,4)$ and $(1,8)$, but no work is shown.

[0] $(-3,4)$ *or* $(1,8)$, but no work is shown.

or

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