NEW YORK STATE
COMPONENT RETEST

MATHEMATICS A
COMPONENT 4
MODULE 2

TUESDAY, MAY 17, 2005

SCORING KEY
AND
RATING GUIDE

Multiple Choice Key

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

Math A Component Retest
May 2005
Component 4, Module 2

Rubrics

(7)

[4] $11 and $8, and appropriate work is shown, such as solving a system of equations 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 only one price is found correctly.

[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 a 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] An incorrect equation or system of equations of equal difficulty is solved appropriately.

or

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

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

or

[1] An incorrect system of equations of a lesser degree of difficulty is solved appropriately.

or

[1] $11 and $8, but no work or only one trial with an appropriate check is shown.

[0] $11 *or* $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.

[**4**] $\Delta A'B'C'$ and $\Delta A''B''C''$ are graphed and labeled correctly, and the coordinates $A'(2,5)$, $B'(-1,1)$, $C'(4,0)$, $A''(-1,7)$, $B''(-4,3)$, $C''(1,2)$ are stated.

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

or

[**3**] Appropriate work is shown, but both triangles are transformations of ΔABC.

or

[**3**] $\Delta A'B'C'$ and $\Delta A''B''C''$ are graphed and labeled correctly, but the coordinates are not stated.

or

[**3**] $\Delta A'B'C'$ and $\Delta A''B''C''$ are graphed correctly and the coordinates are stated, but the triangles are not labeled or are labeled incorrectly.

[**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 performing the transformations in the wrong order or reflecting in the y-axis.

or

[**2**] The coordinates of $\Delta A'B'C'$ and $\Delta A''B''C''$ are stated correctly, but no graph is drawn.

or

[**2**] $\Delta A'B'C'$ is graphed and labeled correctly and the correct coordinates are stated, but no further correct work is shown.

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

or

[**1**] $\Delta A'B'C'$ is graphed and labeled correctly or the coordinates of $\Delta A'B'C'$ are correctly stated, but no further correct work is shown.

or

[**1**] Only $\Delta A''B''C''$ is graphed and labeled correctly or the coordinates of $\Delta A''B''C''$ are stated correctly, but no further correct work is shown.

or

[**1**] The coordinates of $\Delta A'B'C'$ are incorrect, but the coordinates of $\Delta A''B''C''$ are stated appropriately, or $\Delta A''B''C''$ is graphed and labeled appropriately.

[**0**] ΔABC is correctly graphed and labeled, but no further correct 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.

(9)

[**4**] A horizontal line 1 foot above and a horizontal line 1 foot below the fence are sketched correctly, representing the set of points that are 1 foot from the fence; the circle with radius 5 and center at the flagpole is sketched correctly, representing the set of points 5 feet from the flagpole; and the three points of intersection are labeled with an **X**.

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

or

[**3**] The circle and parallel line segments are sketched correctly, but the points of intersection are not labeled.

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

or

[**2**] One conceptual error is made, such as drawing only one line segment parallel to the fence, but appropriate points of intersection are labeled.

[**1**] One locus is sketched correctly, but no further correct work is shown.

or

[**1**] Both loci are sketched incorrectly, but appropriate points of intersection are labeled.

or

[**1**] All three points are labeled correctly, but no work is shown and the loci are not sketched.

[**0**] One or two correct points are indicated, 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.