

**NEW YORK STATE  
COMPONENT RETEST**

**MATHEMATICS A  
COMPONENT 4  
MODULE 2**

**TUESDAY, MAY 16, 2006**

**SCORING KEY  
AND  
RATING GUIDE**

**Multiple Choice Key**

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

**Math A Component Retest**  
**May 2006**  
**Component 4, Module 2**

**Key to Multiple-Choice Questions**

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

**Rubrics**

(7)

[4]  $A = 5$  and  $B = 3$ , and appropriate work is shown, such as solving the system of equations  $45A + 60B = 405$  and  $A + B = 8$  algebraically or graphically or trial and error with at least three trials and appropriate checks.

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

*or*

[3]  $A = 5$  and  $B = 3$ , but the solutions are not labeled or are labeled incorrectly.

*or*

[3] Appropriate work is shown, but only one of the solutions is found correctly.

[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.

*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 is solved appropriately.

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

*or*

[1]  $A = 5$  and  $B = 3$ , but no work or only one trial with an appropriate check is shown.

[0]  $A = 5$  or  $B = 3$ , but no work is shown.

*or*

[0] 5 and 3, 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.

(8)

[4] 101, and appropriate work is shown, such as solving the inequality  $5 + 0.08m < 3 + 0.10m$  or solving an equation algebraically or graphically or trial and error with at least three trials and appropriate checks.

[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 a solution of 99 or 100.

*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 is written, but no further correct work is shown.

*or*

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

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

*or*

[1] Correct expressions are written for both companies or a correct equation is written, but no further correct work is shown.

*or*

[1] 101, but no work or only one trial with an appropriate check 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]  $\Delta RST$  and  $\Delta R'S'T'$  are graphed and labeled correctly.

[3] Both triangles are graphed and labeled appropriately, but one computational or graphing error is made.

*or*

[3] Both triangles are graphed correctly, but they are not labeled or are labeled incorrectly.

[2]  $\Delta RST$  is graphed and labeled correctly, but one conceptual error is made when graphing  $\Delta R'S'T'$ , such as dilating incorrectly or performing a translation.

*or*

[2]  $\Delta R'S'T'$  is graphed and labeled correctly, but  $\Delta RST$  is not graphed or is not labeled.

*or*

[2]  $\Delta RST$  is graphed incorrectly, but  $\Delta R'S'T'$  is graphed and labeled appropriately.

[1] Both triangles are graphed and labeled appropriately, but one conceptual error and one computational or graphing error are made.

*or*

[1]  $\Delta RST$  is graphed and labeled correctly, but no further correct work is shown.

*or*

[1]  $\Delta R'S'T'$  is graphed correctly, but it is not labeled, and  $\Delta RST$  is not graphed or is not labeled.

*or*

[1] The coordinates  $R'(0,2)$ ,  $S'(4,2)$ , and  $T'(4,4)$  are written, but no graph is drawn.

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