

**NEW YORK STATE  
COMPONENT RETEST**

**MATHEMATICS A  
COMPONENT 7  
MODULE 2**

**FRIDAY, MAY 20, 2005**

**SCORING KEY  
AND  
RATING GUIDE**

**Multiple Choice Key**

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

**Math A Component Retest**  
**May 2005**  
**Component 7, Module 2**

**Rubrics**

(7)

[ 4 ]  $x = 10$  and  $y = 15$ , 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 ] 10 and 15, and appropriate work is shown, but the solutions are not labeled or are labeled incorrectly.

*or*

[ 3 ] Appropriate work is shown, but only one variable 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 solutions, 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 for  $x$  and  $y$ .

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

*or*

[ 1 ]  $x = 10$  and  $y = 15$ , but no work or only one trial with an appropriate check is shown.

[ 0 ]  $x = 10$  *or*  $y = 15$ , but no work or only one trial with an appropriate check is shown.

*or*

[ 0 ] 10 and 15, but no work is shown and the answers are not labeled.

*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 ] Marissa has 6 and Joanne has 8, and appropriate work is shown, such as solving the equation  $x(2x - 4) = 48$ .

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

*or*

[ 3 ] 6 and 8, and appropriate work is shown, but the solutions are not labeled or are labeled incorrectly or the variables are not identified.

*or*

[ 3 ] Appropriate work is shown, but the number of books for only one of the girls is found.

*or*

[ 3 ] Appropriate work is shown, but the negative root is not rejected and two sets of answers are given.

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

*or*

[ 2 ] An incorrect equation of equal difficulty is solved appropriately and appropriate solutions are found.

*or*

[ 2 ] The correct solutions are found using an alternative method, such as graphing or trial and error with at least three trials and appropriate checks.

*or*

[ 2 ] The correct quadratic equation is solved, but the negative root is not rejected, and only one of the answers is given.

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

*or*

[ 1 ] The trial-and-error method is used to find both correct solutions, but fewer than three trials and appropriate checks are shown.

*or*

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

*or*

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

*or*

- [ 1 ] Marissa has 6 and Joanne has 8, but no work is shown.
- [ 0 ] Marissa has 6 *or* Joanne has 8, but no work is shown.  
*or*
- [ 0 ] 6 and 8, 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 ] Both inequalities are graphed, labeled, and shaded correctly, and a point in the solution set is identified correctly.

[ 3 ] Appropriate work is shown, but one graphing error is made, such as drawing a dashed line instead of a solid line or incorrectly shading one inequality, but an appropriate point in the solution set is identified.

*or*

[ 3 ] Both inequalities are graphed and shaded correctly, and a point in the solution set is identified correctly, but the graphs are not labeled or are labeled incorrectly.

*or*

[ 3 ] Both inequalities are graphed, labeled, and shaded correctly, but no point in the solution set is identified.

[ 2 ] Appropriate work is shown, but two or more graphing errors are made, and an appropriate point in the solution set is identified.

*or*

[ 2 ] One of the inequalities is graphed, labeled, and shaded correctly, but no further correct work is shown.

*or*

[ 2 ] The line  $y - x = 2$  and the line  $x = 5$  are graphed and at least one is labeled correctly, and the intersection of the two lines (5,7) is indicated as the solution.

[ 1 ] Appropriate work is shown, but one conceptual error and one graphing error are made, but an appropriate point is named.

*or*

[ 1 ] Both inequalities are graphed incorrectly, but an appropriate point is identified.

*or*

[ 1 ] The line  $y - x = 2$  and the line  $x = 5$  are graphed and at least one is labeled correctly, but no further correct 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.