

**NEW YORK STATE  
COMPONENT RETEST**

**MATHEMATICS A  
COMPONENT 7  
MODULE 1**

**THURSDAY, MAY 18, 2006**

**SCORING KEY  
AND  
RATING GUIDE**

**Multiple Choice Key**

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

**Math A Component Retest**  
**May 2006**  
**Component 7, Module 1**

**Key to Multiple-Choice Questions**

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

**Rubrics**

(7)

[4] \$14.25, and appropriate work is shown, such as solving the system of equations  $4f + 2c = 54.50$  and  $f + 8c = 120.50$  algebraically 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] A correct system of equations is solved, but the cost of a pipe fitting is given as the answer.

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

*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] 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] \$14.25, 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.

(8)

[4] The line and the circle are graphed correctly and (0,3) and (3,0) are identified as the points of intersection.

[3] Only the circle or the line is graphed correctly, but appropriate points of intersection are determined from the graph or from the table.

*or*

[3] Both the line and the circle are graphed correctly, but the coordinates of only one point of intersection are written.

[2] Both the line and circle are graphed correctly, but the coordinates of the points of intersection are not written or are written incorrectly.

*or*

[2] The points of intersection are determined based on a correct table, but the equations are not graphed.

[1] Both the circle and the line are graphed incorrectly, but the coordinates of appropriate points of intersection are written.

*or*

[1] Only one graph is sketched correctly, and no points of intersection are determined.

*or*

[1] (0,3) and (3,0), 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] 6, and appropriate work is shown, such as the quadratic equation  $x(x + 1) + 8 = 50$  or trial and error with at least three trials and appropriate checks.

[3] Appropriate work is shown, but one computational error is made or the negative solution is not rejected.

*or*

[3] Appropriate work is shown, but Roberta's age is not identified or Saul's age (7) is given as the answer.

[2] Appropriate work is shown, but two or more computational errors are 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 equation is written, but no further correct work is shown.

*or*

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

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

*or*

[1] 6, 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.