

**NEW YORK STATE  
COMPONENT RETEST**

**MATHEMATICS A  
COMPONENT 4  
MODULE 1**

**MONDAY, APRIL 26, 2004**

**SCORING KEY  
AND  
RATING GUIDE**

**Multiple Choice Key**

<b>1</b>	<b>1</b>
<b>2</b>	<b>1</b>
<b>3</b>	<b>4</b>
<b>4</b>	<b>2</b>
<b>5</b>	<b>3</b>
<b>6</b>	<b>2</b>

**Math A Component Retest**  
**April 2004**  
**Component 4, Module 1**

**Key to Multiple-Choice Questions**

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

**Rubrics**

- (7)
- [ 4 ] 188 children and 80 adults, and appropriate work is shown, such as  $10(268 - x) + 7.5x = 2210$  or trial and error with at least three trials and appropriate checks.
- [ 3 ] 188 and 80, and appropriate work is shown, but neither answer is labeled or the labels are incorrect.
- or*
- [ 3 ] Either 188 children or 80 adults, and appropriate work is shown.
- or*
- [ 3 ] Appropriate work is shown, but one computational error is made.
- [ 2 ] Appropriate work is shown, but two or more computational errors are made.
- or*
- [ 2 ] An incorrect equation of equal difficulty is solved appropriately.
- 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.
- [ 1 ] Variables are identified and a correct equation is written, but no further correct work is shown.
- or*
- [ 1 ] 188 children and 80 adults, but no work or only one trial with an appropriate check is shown.
- or*
- [ 1 ] An incorrect equation of lesser difficulty is solved appropriately.
- [ 0 ] 188 children *or* 80 adults, but no work or only one trial with an appropriate check is shown.
- or*
- [ 0 ] 188 and 80, 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 ] Nick = 36 and daughter = 14, and appropriate work is shown, such as  $x + 8 = 2(50 - x + 8)$  or  $x + 8 = 2(y + 8)$  and  $x + y = 50$ , or trial and error with at least three trials and appropriate checks.
- [ 3 ] Appropriate work is shown, but one computational error is made.
- or*
- [ 3 ] 36 and 14, and appropriate work is shown, but the answers are not labeled or are labeled incorrectly.
- or*
- [ 3 ] A correct equation is written and solved, but the current ages are not found.
- or*
- [ 3 ] A correct system of equations is written, but only one age is found.
- [ 2 ] A correct equation or system of equations is written, but two or more computational errors are made.
- or*
- [ 2 ] An incorrect equation of equal difficulty is solved appropriately.
- or*
- [ 2 ] A correct equation or system of equations is written, but it is not solved.
- 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 with appropriate checks are shown, but no solution is found.
- [ 1 ] An incorrect equation of lesser difficulty, such as  $2x + x = 50$ , is solved appropriately.
- or*
- [ 1 ] Nick = 36 and daughter = 14, but no work or only one trial with an appropriate check is shown.
- [ 0 ] Nick = 36 *or* daughter = 14, but no work or only one trial with an appropriate check is shown.
- or*
- [ 0 ] 36 and 14, 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.

(9)

- [ 4 ] 126, and appropriate work is shown, such as  $12x + 500 < 16x$  or trial and error with at least three trials and appropriate checks.
- [ 3 ] The correct inequality is written and appropriate work is shown, but the answer is stated as 125.
- or*
- [ 3 ] Appropriate work is shown, but one computational error is made.
- [ 2 ] Appropriate work is shown but two or more computational errors are made.
- or*
- [ 2 ] An incorrect inequality of equal difficulty is solved appropriately.
- 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 ] Appropriate work is shown, but one conceptual error is made, such as solving an equation that results in  $x = 125$ .
- [ 1 ] Appropriate work is shown, but one conceptual error and one computational error are made.
- or*
- [ 1 ] A correct inequality is written, but no further correct work is shown.
- or*
- [ 1 ] 126, 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.