

**NEW YORK STATE  
COMPONENT RETEST**

**MATHEMATICS A  
COMPONENT 4  
MODULE 2**

**TUESDAY, MAY 8, 2007**

**SCORING KEY  
AND  
RATING GUIDE**

**Multiple Choice Key**

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

**Math A Component Retest**  
**May 2007**  
**Component 4, Module 2**

**Key to Multiple-Choice Questions**

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

**Rubrics**

- (7)
- [4] A correct tree diagram or sample space is shown, and 12 original outfits, 24 new outfits, and a difference of 12 are determined.
- [3] A correct tree diagram or sample space is shown, but one computational error is made.  
*or*
- [3] A correct tree diagram or sample space is shown, and the number of original outfits and new outfits are determined, but the difference is not found.  
*or*
- [3] An incorrect or incomplete tree diagram or sample space consisting of at least eight combinations of pants and shirts is shown, but the appropriate number of original outfits and new outfits are determined, and an appropriate difference is found.
- [2] A correct tree diagram or sample space is shown, but two or more computational errors are made.  
*or*
- [2] 12 original outfits, 24 new outfits, and a difference of 12 are determined, and appropriate work is shown, but no sample space or tree diagram is shown.  
*or*
- [2] A correct tree diagram or sample space is shown, but the number of original outfits and new outfits are not determined, and the difference is not found.  
*or*
- [2] An incorrect or incomplete tree diagram or sample space consisting of at least eight combinations is shown, but the appropriate numbers of original outfits and new outfits is determined based on the tree diagram or sample space shown, but the difference is not found.
- [1] 12, 24, and 12, but no work (tree diagram or sample space) is shown.
- [0] 12 and 24, but no work (tree diagram or sample space) 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.

(8)

[4] Both triangles are graphed and labeled correctly, and the coordinates of the reflections of  $A$  are  $A'(5, -4)$  and  $A''(-5, -4)$ .

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

*or*

[3] Both triangles are graphed and labeled correctly, but only the coordinates of  $A'$  or  $A''$  are written correctly.

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

*or*

[2] Both triangles are graphed and labeled correctly, but the coordinates of  $A'$  and  $A''$  are not written.

*or*

[2]  $\Delta A'B'C'$  is graphed and labeled correctly, and the coordinates of  $A'$  and  $A''$  are written, but  $\Delta A''B''C''$  is not graphed.

*or*

[2] Appropriate work is shown, but one conceptual error is made, such as reflecting over the wrong axes or  $\Delta A''B''C''$  is a reflection of  $\Delta ABC$ .

[1]  $A'(5, -4)$  and  $A''(-5, -4)$ , but no graphs are drawn.

*or*

[1] Only  $\Delta A'B'C'$  is graphed and labeled correctly.

*or*

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

[0]  $A'(5, -4)$  or  $A''(-5, -4)$ , but no graphs are drawn.

*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] Twenty 12-packs and fifteen 24-packs, and appropriate work is shown, such as solving an equation, solving the system of equations  $x + y = 35$  and  $12x + 24y = 600$ , 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] 20 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 the number of 12-packs or the number of 24-packs 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 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 equation or 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] Twenty 12-packs and fifteen 24-packs, but no work or only one trial with an appropriate check is shown.

[0] Twenty 12-packs *or* fifteen 24-packs, but no work is shown.

*or*

[0] 20 and 15, 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.