

**NEW YORK STATE
COMPONENT RETEST**

**MATHEMATICS A
COMPONENT 4
MODULE 1**

MONDAY, MAY 7, 2007

**SCORING KEY
AND
RATING GUIDE**

Multiple Choice Key

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

Math A Component Retest
May 2007
Component 4, Module 1

Key to Multiple-Choice Questions

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

Rubrics

(7)

[4] 30, and appropriate work is shown, such as solving the inequality $150(55 - x) + 175x \leq 9020$ or the equation $150(55 - x) + 175x = 9020$, solving an algebraic system, or trial and error with at least three trials and appropriate checks.

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

or

[3] Appropriate work is shown, but 25, the number of \$150 models, is found as the answer.

[2] Appropriate work is shown, but two or more computational or rounding 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] A correct inequality, equation, or algebraic system is written, but no further correct work is shown.

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

or

[1] 30, but no work or only one trial with an appropriate check is shown.

[0] 25, but no work or only one trial with an appropriate check 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] $BD = 3$, and appropriate work is shown, such as using $\frac{6}{x} = \frac{8}{12}$ to find $AD = 9$ and then subtracting to find 3 or using $\frac{6}{6+x} = \frac{8}{12}$.

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

or

[3] A correct proportion is written, $AD = 9$ is found, but BD is not 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] A correct proportion 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] $BD = 3$, but no work is shown.

[0] $AD = 9$, but no work 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.

(9)

[4] A sketch is made showing two straight lines, one on each side of the fence and 2 feet from it, a circle with its center at the tree with a radius of 10 feet, and three points of intersection labeled **X**.

[3] Both loci are sketched correctly, but one or more of the points of intersection are not labeled or incorrect points are labeled.

[2] Only one of the two loci is sketched correctly, but appropriate points of intersection are labeled.

[1] Both of the loci are sketched incorrectly, but appropriate points of intersection are labeled.

or

[1] One of the two loci is sketched 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.