

**NEW YORK STATE
COMPONENT RETEST**

**MATHEMATICS A
COMPONENT 6
MODULE 1**

THURSDAY, MAY 19, 2005

**SCORING KEY
AND
RATING GUIDE**

Multiple Choice Key

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

Math A Component Retest
May 2005
Component 6, Module 1

Rubrics

(7)

[4] $\frac{36}{210}$ or an equivalent answer, and appropriate work is shown, such as $\frac{3}{7} \cdot \frac{4}{6} \cdot \frac{3}{5}$.

[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] Both the total number of outcomes and the number of successful outcomes are determined correctly, but no probability is found.

or

[2] Appropriate work is shown, but one conceptual error is made, such as finding the probability with replacement $\left(\frac{3 \cdot 4 \cdot 4}{7 \cdot 7 \cdot 7}\right)$ or using combinations.

or

[2] Only the numerator or the denominator is determined correctly, but an appropriate probability is found.

[1] Both the numerator and the denominator are determined incorrectly, but an appropriate probability is found.

or

[1] $\frac{3}{7}$, $\frac{4}{6}$, and $\frac{3}{5}$ are found, but no further correct work is shown.

or

[1] $\frac{36}{210}$ or an equivalent answer, 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.

(8)

[4] $\frac{1}{6}$, and appropriate work is shown, such as a list of all possible ways to make 35 cents in change.

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

or

[3] Only five of the possible combinations of coins are listed, but an appropriate probability 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, such as giving $\frac{5}{6}$, the complement.

or

[2] Only four of the possible combinations of coins are listed, but an appropriate probability is found.

or

[2] A correct sample space is provided, but no probability is stated.

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

or

[1] $\frac{1}{6}$, 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.

(9)

[4] $\frac{158}{506}$ or an equivalent answer, and appropriate work is shown, such as finding $P(G,G) = \frac{56}{506}$, $P(R,R) = \frac{30}{506}$, and $P(Y,Y) = \frac{72}{506}$ and adding the three probabilities.

[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] Appropriate work is shown, but one conceptual error is made, such as finding the probabilities with replacement or multiplying the three probabilities.

or

[2] The correct probabilities are found for two red, two green, and two yellow, but the probabilities are not added.

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

or

[1] Only one of the three probabilities is calculated correctly, and no further correct work is shown.

or

[1] $\frac{158}{506}$ or an equivalent answer, 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.