NEW YORK STATE
COMPONENT RETEST

MATHEMATICS A
COMPONENT 6
MODULE 1

WEDNESDAY, APRIL 28, 2004

SCORING KEY
AND
RATING GUIDE

Multiple Choice Key

1	3
2	4
3	3
4	1
5	2
6	1

Math A Component Retest
April 2004
Component 6, Module 1

Key to Multiple-Choice Questions

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

Rubrics

(7)

[4] The measures of the central angles are indicated correctly and 78, and appropriate work is shown, such as $x + x + 2x = 360$ and $\frac{1}{4} \bullet 312$.

[3] Appropriate answers are found and the diagram is drawn and labeled, but one computational error is made.

or

[3] The measures of the central angles are indicated correctly and 78, and appropriate work is shown, but the spinner is not correctly divided or not correctly labeled.

or

[3] A correct diagram is drawn and 78 is found, but the measures of the central angles are not indicated.

[2] The measures of the central angles are indicated, but two or more computational errors are made.

[2] The measures of the central angles are indicated correctly and 78, and appropriate work is shown, but the spinner is not correctly divided and not correctly labeled.

or

[2] The measures of the central angles are incorrect, but an appropriate number of blue results is found, and an appropriate diagram is drawn.

or

[2] A correct diagram is drawn that includes correctly labeled central angles, but 78 is not found or is found incorrectly.

or

[2] 78, and appropriate work is shown, but the spinner is not divided or labeled and the measures of the central angles are not given.

[1] A correct diagram is drawn, such as using symbols to indicate the two 90° angles, but the measures of the central angles are not indicated and the expected number of blue results is not given.

or

[1] 78, but no work is shown and the spinner is not divided or labeled.

[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] A correct sample space, such as AB,AM,AT,AJ,BM,BT,BJ,MT,MJ,TJ or a tree diagram, and $\frac{3}{10}$ or an equivalent probability, and appropriate work is shown.

[3] Only eight or nine correct pairs are listed, but an appropriate probability is found, based on the incomplete list.

[2] Permutations rather than combinations are used, resulting in 20 pairs, and an appropriate probability is found, based on these pairs.

or

[2] Five to seven correct pairs are listed, but an appropriate probability is found, based on the incomplete list.

or

[2] A correct sample space or tree diagram is provided, but no probability or an incorrect probability is found.

or

[2] $\frac{3}{10}$ is calculated correctly, and appropriate work is shown, such as $\frac{{}_3C_2}{{}_5C_2}$, but no sample space or an incorrect sample space is shown.

[1] Only eight or nine pairs are listed correctly, and no probability or an inappropriate probability is found.

or

[1] Three or four correct pairs are listed, but an appropriate probability is found, based on the incomplete list.

or

[1] $\frac{3}{10}$ or an equivalent probability, 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] 11,232,000 and 1,422,720, and appropriate work is shown, such as $26 \cdot 25 \cdot 24 \cdot 10 \cdot 9 \cdot 8$ and $26 \cdot 26 \cdot 26 \cdot 10 \cdot 9 \cdot 8 - 11{,}232{,}000$.

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

or

[3] Both 11,232,000 and 12,654,720 are calculated correctly, but the difference is not found or is found incorrectly.

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

or

[2] Appropriate work is shown, but a conceptual error is made, such as using nine for the number of digits or allowing repeats of digits, but an appropriate difference is found.

[1] One conceptual error and one computational error are made, but an appropriate difference is found.

or

[1] Either 11,232,000 *or* 12,654,720 is calculated correctly, with appropriate work shown, but no further correct work is shown.

or

[1] 11,232,000 and 1,422,720, but no work is shown.

[0] 11,232,000 *or* 1,422,720, 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.