

**NEW YORK STATE
COMPONENT RETEST**

**MATHEMATICS A
COMPONENT 5
MODULE 2**

TUESDAY, MAY 16, 2006

**SCORING KEY
AND
RATING GUIDE**

Multiple Choice Key

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

Math A Component Retest
May 2006
Component 5, Module 2

Key to Multiple-Choice Questions

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

Rubrics

(7)

[4] 28 and 13, and appropriate work is shown, such as $\sin x = \frac{7}{15}$ and $\cos 28 = \frac{d}{15}$ or $\tan 28 = \frac{7}{d}$ or the Pythagorean theorem.

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

or

[3] The correct equations are written for both the angle and the distance, but only the measure of the angle or the distance is found correctly.

[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, such as using an incorrect trigonometric function.

or

[2] The correct equations $\sin x = \frac{7}{15}$ and $d^2 + 7^2 = 15^2$ are written, but no further correct work is shown.

or

[2] An incorrect angle measure is determined, but an appropriate value for d is found.

or

[2] Either the angle or the distance is found correctly, 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] 28 and 13, but no work is shown.

[0] 28 *or* 13, 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.

(8)

[4] 16, and appropriate work is shown, such as drawing a diagram or explaining that two layers of 8 cubes will fit inside the box.

[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 $\frac{160 \text{ in}^3}{8 \text{ in}^3} = 20$.

or

[2] The volume of the box, 160 in^3 , and the volume of a cube, 8 in^3 , are found correctly, but no further correct work is shown.

or

[2] A correct diagram showing two layers of cubes 4 by 2 is drawn, but no solution is found.

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

or

[1] 16, 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] The table is completed correctly and an appropriate cumulative frequency histogram is drawn and labeled.

[3] The table is completed correctly, but one error is made in drawing the cumulative frequency histogram or one or more labeling errors are made.

or

[3] The table is not completed correctly, but an appropriate cumulative frequency histogram is drawn.

[2] One error is made in completing the table, and one graphing error is made in drawing the cumulative frequency histogram.

or

[2] The table is completed correctly, but one conceptual error is made, such as drawing a correct cumulative frequency bar graph or frequency histogram.

[1] The table is completed correctly, but no graph is drawn.

or

[1] A correct frequency histogram is drawn, 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.