Grade 3 Mathematics Paper-Based Practice Test Answer Key

The following pages include the answer key for all machine-scored items, followed by the rubric for the hand-scored item. The rubric shows sample student responses. Other valid methods for solving the problem can earn full credit unless a specific method is required by the item. In items where the scores are awarded for full and partial credit, if students make a computation error, they can still earn points for reasoning or modeling.

Item Number	Item Type	Answer Key	Number of Points	Standard
1	SR	B	1	3.NF.2
2	SR	B	1	3.OA.8
3	SA	6	1	3.OA.7
4	SR	B	1	3.MD.3
5	SR	A, C, E	1	3.G.2
6	SR	D	1	3.G.1
7	SR	C	1	3.NF.3
8	SR	D	1	3.MD.4
9	SR	C, E	1	3.OA.5
10	CR	*See rubric*	3	3.OA.6

Rubric is on the next page.

Scoring Rubric for Grade 3 Practice Test Item #10:

Part A:

Score	Description
1	Reasoning component: The student correctly identifies the error in Cindy's error. For example: "Cindy thought addition was the opposite of division."
0	Student response is incorrect or irrelevant.

Part B:

Score	Description
2	Student response includes each of the following 2 elements. • Reasoning component: The student explains that multiplication is the opposite of division. For example: "To find the quotient of $27 \div 9$, I need to know what number when multiplied by 9 has a product of 27. • Computation component: $27 \div 9 = 3$ Notes: ○ The student does not need to use the term "unknown factor" in his or her explanation. ○ The equation does not have to be provided to receive credit as long as the student shows clear understanding of using an unknown factor problem to find the answer to a division problem. ○ The student may provide only the equation for the computation part. ○ The student may earn credit for another valid explanation, such as repeated addition or subtraction. ○ The computation may be embedded within the reasoning.
1	Student response includes 1 of the 2 elements.
0	Student response is incorrect or irrelevant.