

Grade 5 Mathematics Paper-Based Practice Test Answer Key

The following pages include the answer key for all machine-scored items, followed by rubrics for the hand-scored items. The rubrics also show 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, students can still earn points for reasoning or modeling even if they make a computation error.

Session 1

| Item Number | Item Type | Answer Key | Number of Points | Standard |
|-------------|-----------|------------------------|------------------|-----------|
| 1 | SR | A | 1 | 5.NBT.A.3 |
| 2 | SR | D | 1 | 5.NF.A.1 |
| 3 | SR | C | 1 | 5.MD.B.2 |
| 4 | SR | Part A: D Part B: A | 2 | 5.G.A.2 |
| 5 | SR | A, E | 1 | 5.NF.B.5 |
| 6 | SR | B | 1 | 5.OA.A.2 |

Session 2

| Item Number | Item Type | Answer Key | Number of Points | Standard |
|-------------|-----------|-------------------|------------------|-----------|
| 7 | SR | A, D, E | 1 | 5.NF.B.5 |
| 8 | SA | 180 | 1 | 5.MD.C.5 |
| 9 | SR | C | 1 | 5.NF.B.4 |
| 10 | SR | A, D, F | 1 | 5.NBT.A.4 |
| 11 | SR | A, E | 1 | 5.MD.A.1 |
| 12 | CR | <i>See Rubric</i> | 4 | 5.NBT.B.7 |

Rubric is on the next page.

| Scoring Guide | |
|---------------|---|
| Score | Description |
| 4 | The student response demonstrates an exemplary understanding of the Number and Operations in Base Ten concepts involved in adding, subtracting, multiplying, and dividing decimals to hundredths. The student uses decimals to solve a real-world problem. |
| 3 | The student response demonstrates a good understanding of the Number and Operations in Base Ten concepts involved in adding, subtracting, multiplying, and dividing decimals to hundredths. Although there is significant evidence that the student was able to recognize and apply the concepts involved, some aspect of the response is flawed. As a result the response merits 3 points. |
| 2 | The student response demonstrates a fair understanding of the Number and Operations in Base Ten concepts involved in adding, subtracting, multiplying, and dividing decimals to hundredths. While some aspects of the task are completed correctly, others are not. The mixed evidence provided by the student merits 2 points. |
| 1 | The student response demonstrates a minimal understanding of Number and Operations in Base Ten concepts involved in adding, subtracting, multiplying, and dividing decimals to hundredths. |
| 0 | The student response contains insufficient evidence of an understanding of the Number and Operations in Base Ten concepts involved in adding, subtracting, multiplying, and dividing decimals to hundredths to merit any points. |

Sample Response

a. The cost is \$11.70; $2.6 \times 4.50 = 11.70$

b. He needs 2.75 pounds; $5.50 - 2.75 = 2.75$

c. Terry makes 27 meatballs; $8.1 \div 0.3 = 27$