

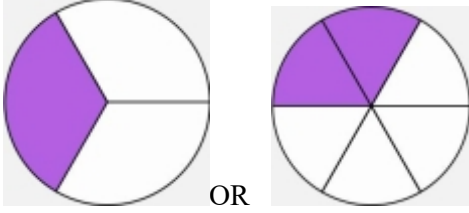
## Grade 5 Mathematics Computer-Based Practice Test Answer Key

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	SA	$4 \times 100 + 1 \times 10 + 6 \times 1 + 8 \times \frac{1}{10} + 2 \times \frac{1}{100}$	1	5.NBT.A.3
2	SA	$\frac{17}{20}$ or equivalent	1	5.NF.A.01
3	SA	<p style="text-align: center;"><b>Student's Shoe Size</b></p> <p style="text-align: center;">Shoe Size</p>	1	5.MD.B.02
4	SA	<p>Part A: D Part B:</p>	2	5.G.A.02
5	SR	$\frac{2}{5} \times \frac{3}{2}$ $\frac{2}{5} \times \frac{1}{3}$ $\frac{2}{5} \times \frac{3}{4}$ $\frac{2}{5} \times \frac{6}{6}$ $\frac{2}{5} \times \frac{4}{1}$	1	5.NF.B.05
6	SR	B	1	5.OA.A.02

Session 2

Item Number	Item Type	Answer Key	Number of Points	Standard																									
1	SR	<p>The product of <math>6 \times \frac{5}{3}</math> will be <input type="text" value="greater than"/> 6 because the fraction <math>\frac{5}{3}</math> is <input type="text" value="greater than"/> 1.</p> <p>The product of <math>7 \times \frac{6}{6}</math> will be <input type="text" value="equal to"/> 7 because the fraction <math>\frac{6}{6}</math> is <input type="text" value="equal to"/> 1.</p> <p>The product of <math>3 \times \frac{2}{3}</math> will be <input type="text" value="less than"/> 3 because the fraction <math>\frac{2}{3}</math> is <input type="text" value="less than"/> 1.</p>	1	5.NF.B.05																									
2	SA	180	1	5.MD.C.05																									
3	SA		1	5.NF.B.04																									
4	SA	<table border="1"> <thead> <tr> <th>Number</th> <th>89</th> <th>89.47</th> <th>89.5</th> <th>90</th> </tr> </thead> <tbody> <tr> <td>One</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Hundredth</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Ten</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Tenth</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Number	89	89.47	89.5	90	One	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Hundredth	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ten	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Tenth	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1	5.NBT.A.04
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5	SR	A, E	1	5.MD.A.01																									
6	CR	See Rubric.	4	5.NBT.B.07																									

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;  $8.1 \div 0.3 = 27$

