

Grade 6 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.

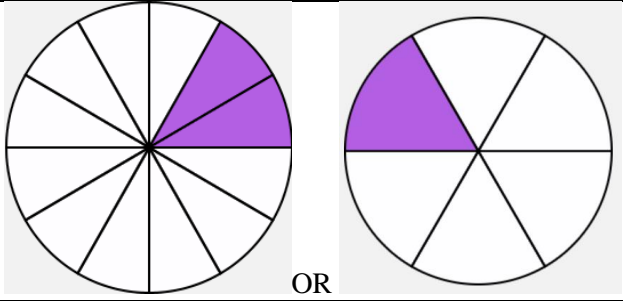
Session 1

Item Number	Item Type	Answer Key	Number of Points	Standard										
1	SR	The dairy farmer drove at an average rate of <input type="text" value="8"/> miles per gallon of fuel on Monday, and used a total of <input type="text" value="12"/> gallons of fuel on Tuesday.	1	6.RP.A.3										
2	SA		1	6.NS.C.08										
3	SA	<p>Pumpkins for Sale</p> <table border="1" style="margin: 10px auto;"> <caption>Pumpkin Sales Data</caption> <thead> <tr> <th>Weight Range (pounds)</th> <th>Number of Pumpkins</th> </tr> </thead> <tbody> <tr> <td>0 - 4</td> <td>2</td> </tr> <tr> <td>5 - 9</td> <td>6</td> </tr> <tr> <td>10 - 14</td> <td>4</td> </tr> <tr> <td>15 - 20</td> <td>3</td> </tr> </tbody> </table>	Weight Range (pounds)	Number of Pumpkins	0 - 4	2	5 - 9	6	10 - 14	4	15 - 20	3	1	6.SP.B.04
Weight Range (pounds)	Number of Pumpkins													
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4	SA		1	6.EE.B.08										

5	SA	<table border="1"> <thead> <tr> <th>Division Equation</th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>$128 \div 16 = 8$</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>$749 \div 11 = 43$</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>$684 \div 3 = 228$</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Division Equation	True	False	$128 \div 16 = 8$	<input checked="" type="radio"/>	<input type="radio"/>	$749 \div 11 = 43$	<input type="radio"/>	<input checked="" type="radio"/>	$684 \div 3 = 228$	<input checked="" type="radio"/>	<input type="radio"/>	1	6.SP.B.04
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6	SA		1	6.NS.B.02												
7	SA	<p style="text-align: center;">Hours Spent Reading</p>	1	6.G.A.3												
8	CR	<i>See rubric.</i>	4	6.RP.A.03												

Session 2

Item Number	Item Type	Answer Key	Number of Points	Standard
1	SR	The ratio 3:6 could describe the ratio of the number of <input type="text" value="black"/> cars to the number of <input type="text" value="red"/> cars on the street.	1	6.RP.A.01
2	SA	120	1	6.G.A.01
3	SR	B	1	6.EE.B.07
4	SR	D	1	6.SP.B.05
5	SA		1	6.NS.C.06
6	SR	A, C, E	1	6.EE.A.01

7	SA		1	6.NS.A.01
8	SA	<p style="text-align: center;">Part A: 6 Part B: $\frac{1}{8}$ or equivalent</p>	2	6.G.A.02

Rubric is on the next page

Scoring Guide	
Score	Description
4	The student response demonstrates an exemplary understanding of the Ratios and Proportional Reasoning concepts involved in using ratio and rate reasoning to solve real-world and mathematical problems. The student computes a missing value using a table, plots the points on a coordinate grid, and uses the graph to determine a different missing value.
3	The student response demonstrates a good understanding of the Ratios and Proportional Reasoning concepts involved in using ratio and rate reasoning to solve real-world and mathematical problems. 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 Ratios and Proportional Reasoning concepts involved in using ratio and rate reasoning to solve real-world and mathematical problems. 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 the Ratios and Proportional Reasoning concepts involved in using ratio and rate reasoning to solve real-world and mathematical problems.
0	The student response contains insufficient evidence of understanding of the Ratios and Proportional Reasoning concepts involved in using ratio and rate reasoning to solve real-world and mathematical problems to merit any points.

Sample Response:

- a. 400 pounds of snow
- b. Correctly plots all 6 coordinates from the table completed in part A
- c. 560 pounds of snow