

Math Practice Test Constructed Response Rubric Grade 8

Mason and Sylvia both took road trips on Saturday. The relationship between how far, d miles, and for how long, t hours, Mason drove is modeled by $d = 40t$. Sylvia drove 200 miles in 4 hours.

Note: The relationship between distance, d , rate, r , and time, t , is $d = rt$.

Was Mason's or Sylvia's average rate greater? Explain how you know and what steps you would use to determine their average rates.

Write your answer in the space provided.



Rubric	
Score	Description
2	<p>ONE point:</p> <p>Greater average rate: Sylvia</p> <p>AND</p> <p>ONE point:</p> <p>Explanation: (Possible correct response includes but is not limited to the following example; correct responses can be represented in words, mathematical expressions/equations, and or drawings/sketches.)</p> <p>Mason's average rate: 40 miles per hour Sylvia's average rate: $200 \text{ miles} / 4 \text{ hours} = 50 \text{ miles per hour}$</p>
1	<p>Greater average rate: Sylvia</p> <p>OR</p> <p>Explanation: (Possible correct response includes but is not limited to the following example; correct responses can be represented in words, mathematical expressions/equations, and or drawings/sketches.)</p> <p>Mason's average rate: 40 miles per hour Sylvia's average rate: $200 \text{ miles} / 4 \text{ hours} = 50 \text{ miles per hour}$</p>
0	The response is incorrect or irrelevant.