

Math Practice Test Constructed Response Rubric Grade 9

Brenda starts with \$20. Each day she works, she earns \$30. William starts with \$50. Each day he works, he earns \$20. Assume Brenda and William work the same days, and neither spends any of the money. The relationship between the number of days worked, x days, and the amount, y dollars, each person has can be modeled by an equation.

Write an equation for Brenda and an equation for William to represent the relationship between x and y .

Write your answer in the space provided.

Brenda:

William:

Explain how to determine the number of days Brenda and William must work until they have the same amount of money. What is that number of days?

Write your answer in the space provided.

Rubric	
Score	Description
2	<p>ONE point:</p> <p>Two correct equations are given; any equivalent equations are correct. Brenda: $y = 30x + 20$ William: $y = 20x + 50$</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>$30x + 20 = 20x + 50$ $x = 3$ days</p>
1	<p>Brenda: $y = 30x + 20$</p> <p>OR</p> <p>William: $y = 20x + 50$</p> <p>OR</p> <p>$x = 3$ days</p> <p>OR</p> <p>$30x + 20 = 20x + 50$</p>
0	The response is incorrect or irrelevant.