Name: \_\_\_\_\_

Date: \_\_\_\_\_

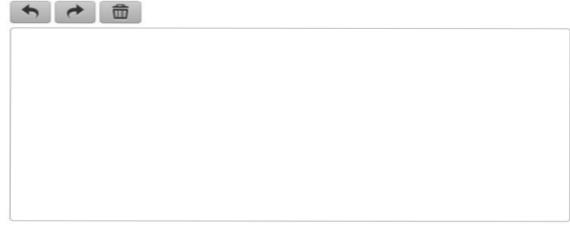
The table represents a proportional relationship.

x	У
6	7.5
8	10.0
10	12.5

A student states that the constant of proportionality is 2.5 since 10 - 7.5 = 2.5.

- Explain why the student's reasoning is incorrect.
- Find the correct constant of proportionality. Show your work or explain your answer.

Enter your explanations, your answer, and your work in the space provided.



	Rubric		
Score	Description		
3	Student response includes the following 3 elements.		
	<ul> <li>Computation component = 1 point         <ul> <li>Correctly determines the constant of proportionality as 1.25 or equivalent</li> </ul> </li> </ul>		
	<ul> <li>Reasoning component = 2 points         <ul> <li>Correctly explains why the student's reasoning is incorrect</li> <li>Correct work or explanation for calculating the constant of proportionality</li> </ul> </li> </ul>		
	Sample Student Response: The student's reasoning is incorrect because he or she used subtraction between only one quantity to find the constant of proportionality. Since the table is proportional, the ratio between the y and x values will be the same This will be the constant of proportionality.		
	y/x = 10/8 = 1.25 y/x = 7.5/6 = 1.25		
	The constant of proportionality is 1.25.		
	Note: One example of correct work is sufficient for credit.		
2	Student response includes 2 of the 3 elements.		
1	Student response includes 1 of the 3 elements.		
0	Student response is incorrect or irrelevant.		

## ANSWER KEY

Glow	Grow