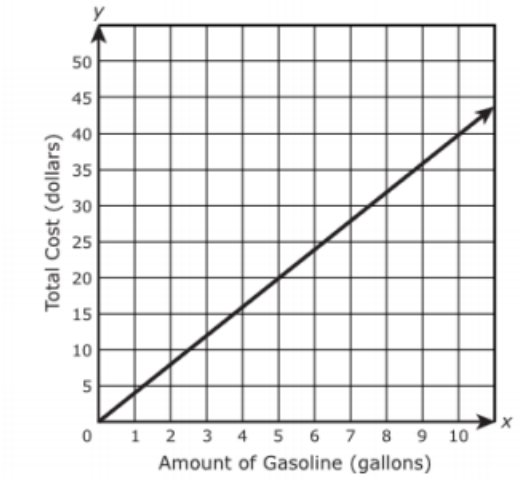
Name: _____ Date: _____

The graph and table show the amount of gasoline in gallons, x, and the total cost in dollars, y, of gasoline at two gas stations.

Gas Station P



Gas Station M

x	y
5	19.00
10	38.00
15	57.00

Use the unit price of gasoline at both gas stations to determine which gas station charges more for gasoline (gallons). Be sure to indicate the unit prices in your answer. Show or explain your work.

Enter your answer, and your work or explanation in the space provided.

ANSWER KEY

Rubric	
Score	**Description**

3	Student response includes the following 3 elements.
	
	• Computation component = 1 point
	  ○ Determines the unit price for both gas stations
	
	• Modeling component = 2 points
	  ○ Determines that gas station P charges more for gasoline
	  ○ Correctly models determining the unit prices and the gas station that charges more for gasoline.
	
	Sample Student Response
	Based on the unit prices, Gas Station P charges more for gasoline. The unit price for Gas Station P is $4.00 per gallon since the constant linear graph for Gas Station P shows the point (5, 20), which means it costs $20 for 5 gallons of gas. The table for Gas Station M shows that 10 gallons costs $38, so the unit price for Gas Station M is 38/10 = $3.80 per gallon.

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.

Glow	Grow