

Name: _____

Date: _____ Element: _____

Directions: Answer the prompts below. Show your work or explain how you know the answer. For multiple choice, circle the letter of the answer or highlight the entire answer.

Price per carrot	Quantity supplied of carrots
\$0.10	10
\$0.15	20
\$0.20	25
\$0.25	29
\$0.30	33
\$0.35	36
\$0.40	38
\$0.45	40

1. The table shows the supply of carrots in Scienceville. Study the data and then make a properly labeled graph of the supply curve for carrots in Scienceville.

- Does Scienceville's supply of carrots follow the law of supply? Why or why not?
- According to the data in question 1, at a price of \$0.30 per carrot, sellers in Scienceville would be willing to sell how many carrots?
- All else held constant, according to the data in question 1, if the price of carrots rises from \$0.30 to \$0.40 per carrot, sellers in Scienceville would be willing to sell how many carrots?
- In question 4, is this a change in supply or a change in quantity supplied?
- All else held constant, according to the data in question 1, if the price of carrots decreases from \$0.30 to _____ per carrot, sellers in Scienceville would be willing to sell 10 carrots.
- In question 6, is this a change in supply or a change in quantity supplied?

Price per carrot	Quantity supplied of carrots			Total quantity
	Scienceville	Historyville	Mathville	
\$0.10	10	3	20	
\$0.15	20	5	30	
\$0.20	25	8	40	
\$0.25	29	12	45	
\$0.30	33	18	49	
\$0.35	36	28	52	
\$0.40	38	35	54	
\$0.45	40	40	55	

8. The table shows the supply of carrots in Scienceville, Historyville, and Mathville. Study the data and complete the table, then make a properly labeled graph of the market supply curve for carrots. Upload a photo or screenshot of your graph.

9. According to the data in question 8, which town, if any, does not follow the law of supply?

10. Explain how you arrived at your answer to question 9.