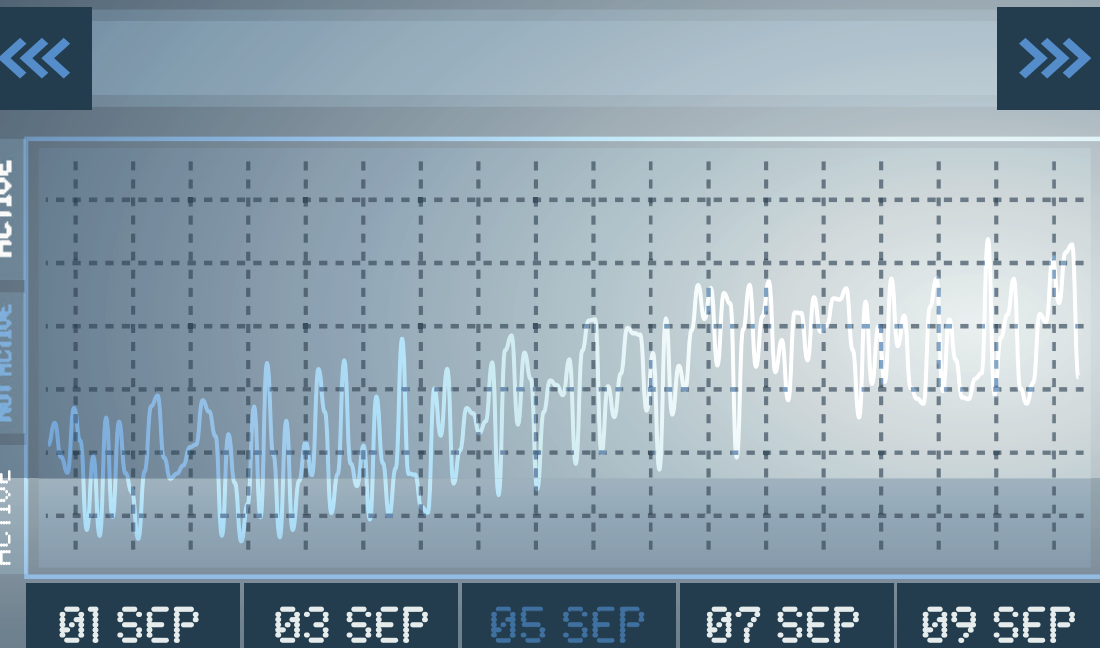


MeTEOR Performance Task

Seventh Grade

Mathematics

Constant of Proportionality



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MeTEOR
CONNECTING THE DOTS

Task/Question 2:

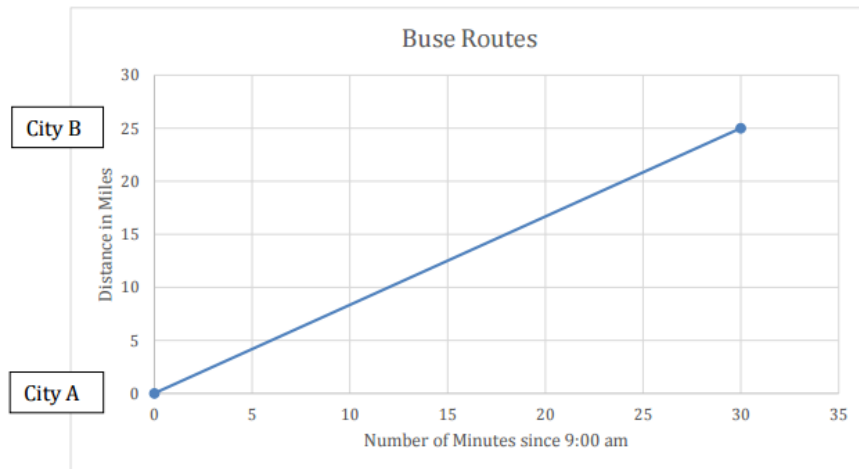
- A.** If it costs 30 cents to buy 1 apple, how much will 2 apples cost? 4 apples? Complete the table below?

Apples	Cost in Cents
1	30
2	
3	
4	
5	
6	

- B.** Explain the pattern, or mathematics used to complete the table in Part A:
- C.** Complete the sentence: For every _____ apple(s), the cost is exactly _____ cents.
- D.** Write an equation for the cost of any number of apples, using ***c*** for cost and ***a*** for number of apples.

Task/Question 3:

The graph below plots the journey of a bus from City A to City B. The bus leaves City A at 9:00am and arrives at City B at 9:30am



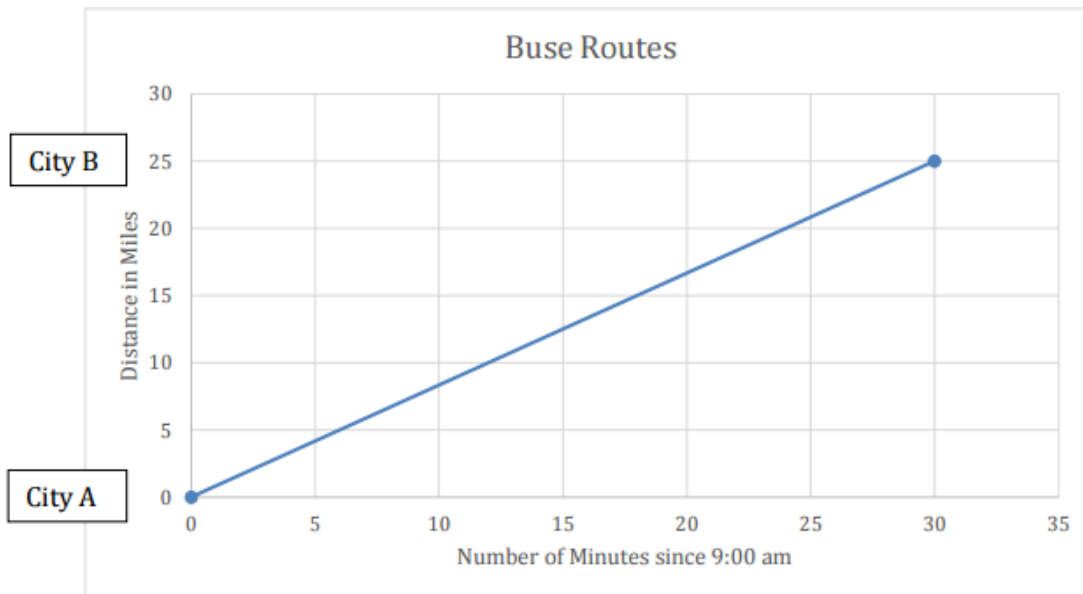
- A. How many miles is it from City A to City B?

- B. How many minutes does the journey take?

- C. What is the unit rate for the bus? (miles/hour)

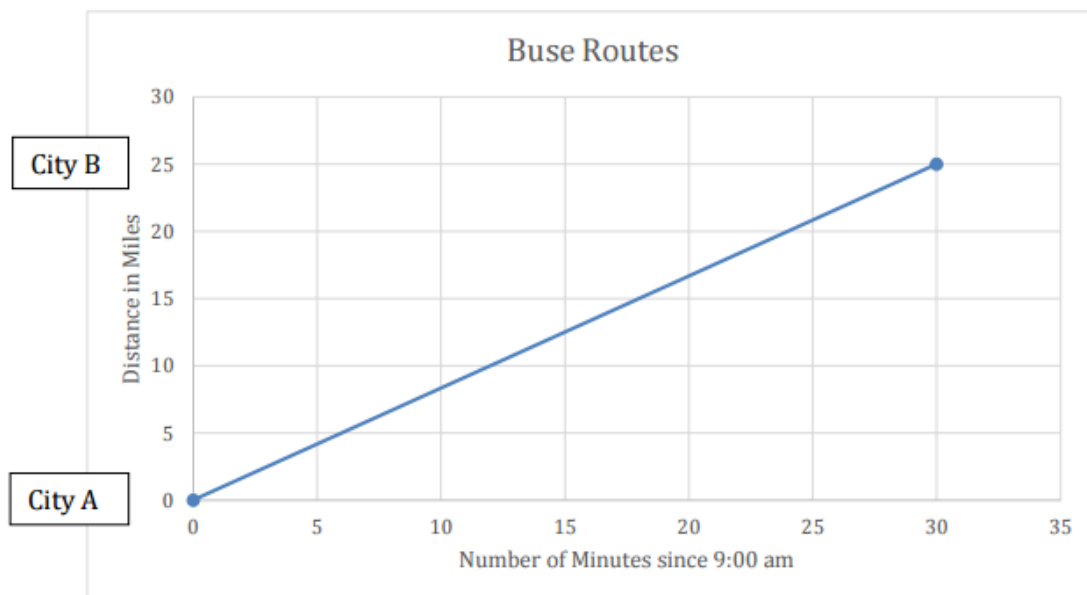
Task/Question 4:

- A.** A second bus leaves City B at 9:00am and arrives at City A at 9:30am. Draw a line on the diagram to show the journey of this second bus.



- B.** At what time do the two buses pass each other? Describe how you determined your answer.

- C. Buses leave City A and City B every 10 minutes during the morning, repeating the two journeys shown on your graph. On your graph, draw a line to show the bus that leaves City A at 9:20am.



- D. How many buses traveling in the opposite direction will this bus meet before it reaches City B? How is your solution the **most efficient** for solving this problem?



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