

Name: _____

M1A18

Date: _____

Accordino-Math 7

Period: _____



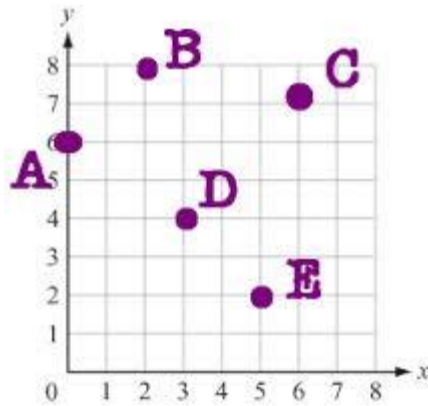
Lesson 8: Identifying Proportional and Non-Proportional Relationships in Graphs (Graph to Table)



Bellringer

1) What are the coordinates for point E?

- a. (5,2)
- b. (2,5)
- c. (0,6)
- d. (2,8)



2) Write three ratios that are equivalent to the one given: 18 football players for every 12 soccer players.

Lesson 8: Identifying Proportional and Non-Proportional Relationships in Graphs (Graph to Table)

Classwork

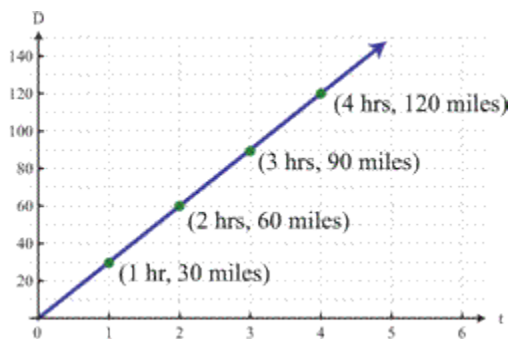
REVIEW:

Characteristics of graphs of proportional relationships:

We can also conclude if a set of values are in a proportional relationship by looking at the graph of the ordered pairs!

Example 1:

The graph below represents the relationship of height above the ground to time for a hotair balloon.



Time	Height above ground (in miles)
1	
2	
2.5	
3	
4	

What is the unit rate? Plot it on the graph.

Does the graph represent a proportional relationship? _____

If Grandma Agnus wants to take a 2 and half hour balloon ride, how high above the ground should she expect to be?

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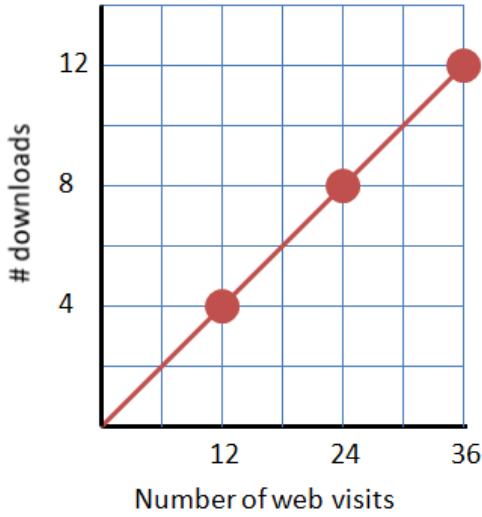
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Example 2

The graph below represents the relationship of number of song downloaded to number of visits to the iTunes© store.



# of Web Visits	# of downloads

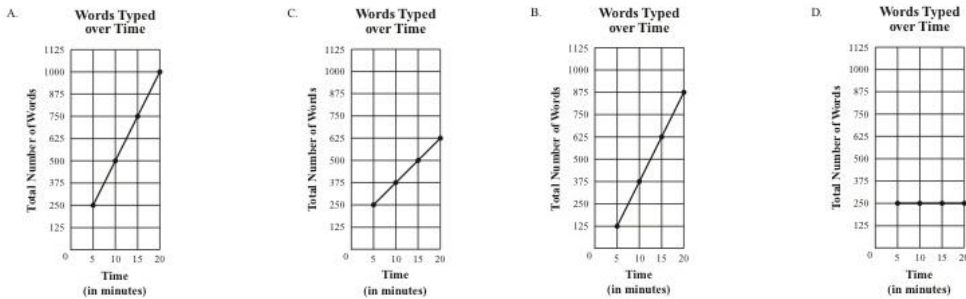
What is the unit rate? Plot it on the graph.

Does the graph represent a proportional relationship? _____

If my child visits the iTunes© store 60 times how many songs should I expect them to have downloaded?

Example 3

Samantha types an average of 50 words per minute. Which of the following graphs shows the relationship between total number of words typed and time spent typing?



Time (in minutes)	# of words typed

Find the unit rate, create a table, then match the points to a graph.

What is the unit rate?

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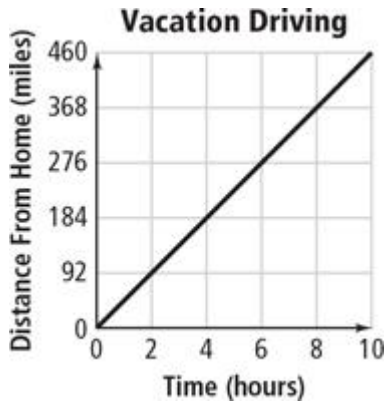
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You Try!

1) The graph below represents the relationship between distance from home and time in hours during a family road trip.



Time (in hours)	Distance from home (in miles)

What is the unit rate? Plot it on the graph.

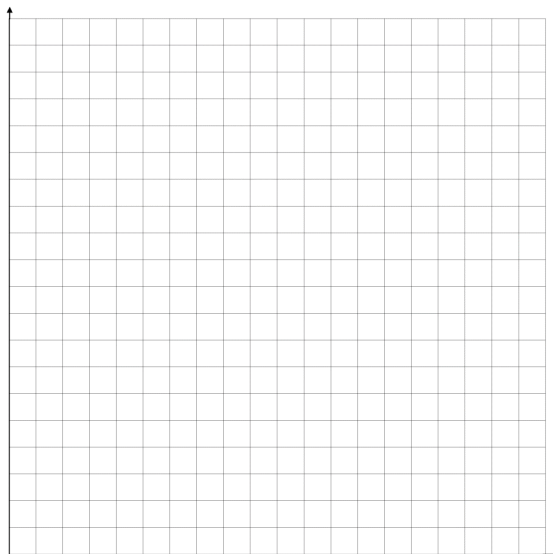
Does the graph represent a proportional relationship? _____

At this rate, if you have been in the car for 12.3 hours how many miles have you traveled?

2) I want to bake 12 dozen cookies. If I can bake 2 dozen cookies in an hour how long will it take me to bake all twelve dozen cookies.

a. What is my unit rate of dozen cookies per hour?

b. Make a table and graph representing the relationship.



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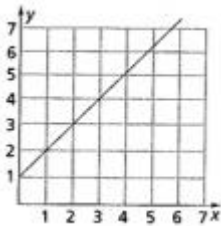
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Lesson 8: Identifying Proportional and Non-Proportional Relationships in Graphs (Tables to Graphs) Exit Ticket

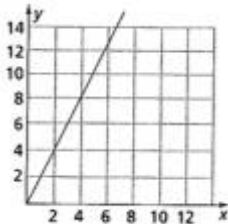


For each of the graphs below state whether they represent a proportional relationship and how you know. If the graph does represent a proportional relationship find the unit rate.



Proportional Relationship? Yes/No
How do you know?

Unit Rate:



Proportional Relationship? Yes/No
How do you know?

Unit Rate:

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