MODULE 2—Linear Functions and Data Organizations

Standard A1.2.2

Ahava is traveling on a train.

The train is going at a constant speed of 80 miles per hour.

A. How many hours will it take for the train to travel 1,120 miles?

hours: _____

Ahava also considered taking an airplane. The airplane can travel the same 1,120 miles in 12 hours less time than it takes the train.

B. What is the speed of the airplane in miles per hour (mph)?

speed of the airplane: _____ mph

Continued on next page.

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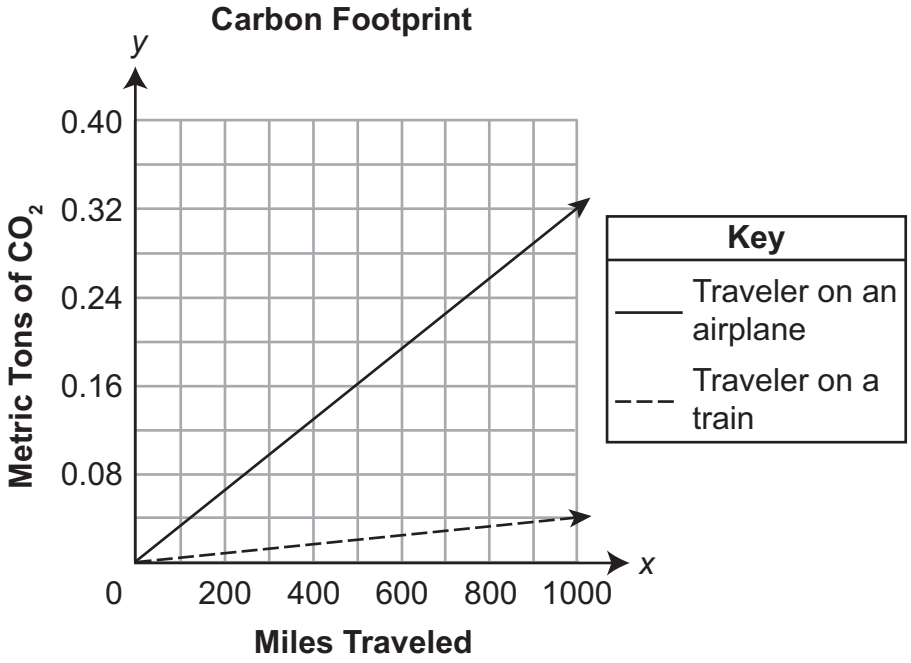
***Continued*.** Please refer to the previous page for task explanation.

Ahava is very concerned about the environment. The graph below displays the carbon dioxide (CO_2), in metric tons, for each traveler on an airplane and each traveler on a train.



C. What equation could be used to find the metric tons of CO_2 produced (y) by a traveler on an airplane for x miles traveled?

equation: _____

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