

Name _____ Date _____

Lisa is going on a long-distance bike ride with her friends. They will ride at a rate of 10 miles every hour.

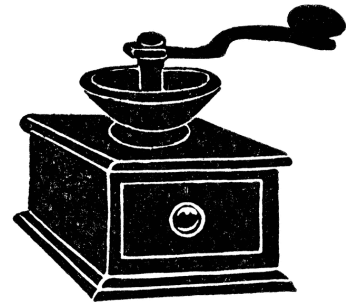
1. Write an equation that relates the distance, D , that Lisa travels to the number of hours, h , she has ridden.
2. Identify and describe the independent and dependent variables in your equation.

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A coffee storage bin contains 1500 grams of coffee beans. To make a cup of coffee, n grams of coffee beans are removed.

1. Write an equation to model the relationship between the quantity of coffee beans removed, n , and the quantity of coffee beans remaining in the storage bin, q .
2. Identify the dependent variable in your equation and explain why it is dependent.

A manual coffee grinder holds 200 grams of coffee and grinds 2 grams every time the crank is turned.



3. Write an equation to show the relationship between the number of times the crank is turned, t , and the amount of coffee remaining, c .
4. Identify the independent variable in your equation and explain why it is independent.