

A person's score on a timed keyboarding test varies directly with the number of words the person types correctly. Each keyboarding test lasts the same amount of time.

On her first test, Catherine earned a score of 75 when she typed 200 words correctly.

- a. What is the ratio of Catherine's score to the number of words she typed correctly?
- b. Use your ratio from part (a) to write an equation that can be used to find y, the score for x words typed correctly.

On her second test, Catherine typed 240 words correctly.

c. Use the equation you wrote in part (b) to find the score Catherine earned on her second test. Show or explain how you got your answer.

Catherine wants to earn a score of at least 96 on her third test.

d. What is the least number of words Catherine must type correctly to earn a score of 96? Show or explain how you got your answer.