

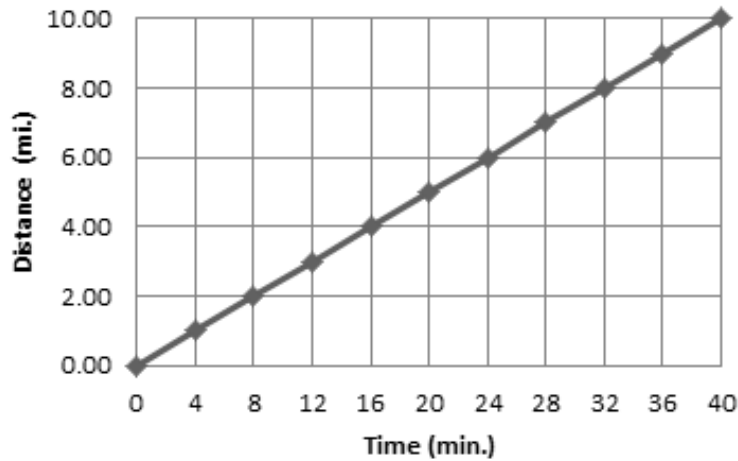
Name _____

Date _____

Mr. Tallman

Homework #29 - Unit Rates on Graphs

1) Dave went on a 10 mile bike ride. Dave graphed his time on the graph below.



A) Is the amount of miles Dave rode proportional to his time in minutes? Explain.

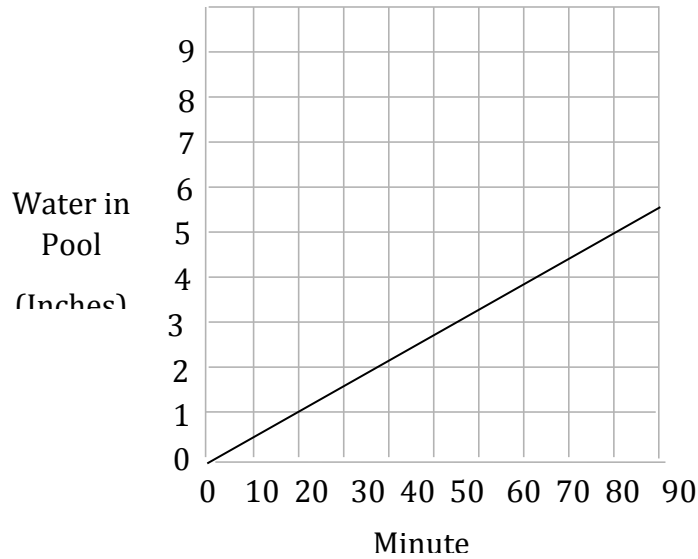
B) What is the constant of proportionality (k) shown on the graph?

C) Write an equation that shows the relationship above. _____

D) What does the constant of proportionality mean in the context of the problem?

E) How many miles does Dave ride if he rides for 44 minutes?

2) Dan is filling his swimming pool with water. He graphs the relationship of how long it takes to fill his pool below.



A) Is the amount of water in the pool proportional to the number of minutes he is filling the pool? Explain.

B) What is the constant of proportionality?

C) Write an equation that shows the relationship above. _____

D) What does the constant of proportionality mean in the context of the problem?

E) If Dan fills his pool for 10 minutes, how many inches of water are in the pool?