Name	Date	Period
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## Math Homework 8

- 1. In 25 minutes Li can run 10 laps around the track. Determine the number of laps she can run per minute.
  - a. Find the constant of proportionality (k) in this situation.

b. Write an equation to represent the relationship where x represents time (minutes) and y represents the number of laps.

2. Jennifer is shopping with her mother. They pay \$2 per pound for tomatoes at the vegetable stand.

a. Find the constant of proportionality (k) in this situation.

b. Write an equation to represent the relationship where x represents the total weight of tomatoes bought (pounds) and y represents cost (\$).

3. Allison's school has designed t-shirts for all the 7th graders. Allison has volunteered to call local stores to get an estimate on the total cost of purchasing t-shirts. Print-o-Rama charges a set-up fee, as well as a fixed amount for each shirt ordered. Value T's and More charges \$8 per shirt.



- a. How much would 50 shirts from Print-O-Rama cost? Show work or explain your answer and fill in the table.
- b. What is the set-up fee at Print-O-Rama? Show work or explain your answer.
- c. Does either pricing model represent a proportional relationship between the quantity of t-shirts and the total cost? Explain.
- d. How much would 70 shirts cost from each company? If you need to buy 70 shirts, which company should you use? Explain your answer.