Classwork

Mathematical Modeling Exercises

1. At Fun Burger, the Burger Master can make hamburgers at a rate of burgers/minute. In order to address the heavy volume of customers, he needs to continue at this rate for minutes. If he continues to make hamburgers at this pace, how many hamburgers will the Burger Master make in minutes?
2. Chandra is an editor at the New York Gazette. Her job is to read each article before it is printed in the newspaper. If Chandra can read words/second, how many words can she read in seconds?

Exercises

Use the table below to write down your work and answers for the stations.

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Lesson Summary

We can convert measurement units using rates. The information can be used to further interpret the problem. Here is an example:

Problem Set

1. Emma earns per hour tutoring student-athletes at Brooklyn University.
   1. If Emma tutored for hours this month, how much money did she earn this month?
   2. If Emma tutored for hours last month, how much money did she earn last month?
2. The Piney Creek Swim Club is preparing for the opening day of the summer season. The pool holds gallons of water, and water is being pumped in at gallons per hour. The swim club has its first practice in hours. Will the pool be full in time? Explain your answer.