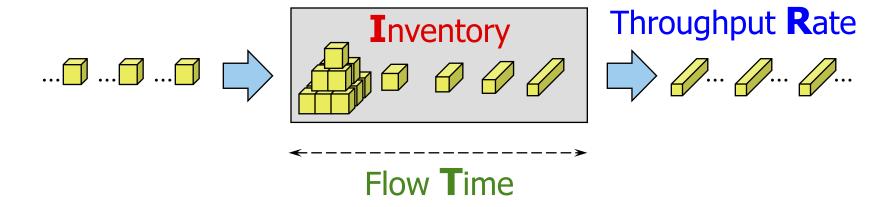
Little's Law

Inventory = Throughput Rate × Flow Time



Little's Law: $I = R \times T$

Inventory = Throughput Rate × Flow Time

Input rate: 2 customers per sec

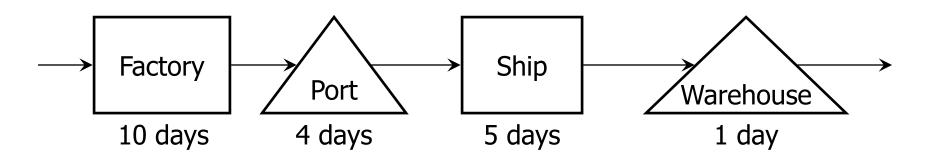
Process





Example 1: Walmart's Supply Chain

 Wal-Mart imports 3000 sweatshirts from an overseas supplier every month. The products go through several stages before arriving at Wal-Mart stores:



- How many sweatshirts in each stage, and in the entire supply chain?
- Little's Law can be applied to any part of the process.

Example 2: Insurance Company

- An insurance company processes 10,000 claims per year.
 The average processing time is 3 weeks. How many claims are in the system on average? (Assuming 50 weeks in a year)
- R= ____ claims / week, T = ___ Weeks, I = ___ claims
- Now, the company reduces its processing time by 80%. How many claims are in the system on average?
- R= ____ claims / week, T = ____ Weeks, I = ___ claims
- A manager can influence any one of these measures by controlling the other two.