

## Challenge Problem #40

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Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes using **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. **A diagram is required for this problem**. The last 12 points will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

Mary and Sue run a 100 yard race. Mary wins the race. Her time was exactly 12.5 seconds. Sue was exactly 10 feet from the finish line as Mary crossed the line. What was Sue's average speed in the race?