

Math Diversion 1041

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February 16, 2026

You don't understand anything until you learn
it more than one way.
— Marvin Minsky

Source: <https://gmatclub.com/forum/a-team-won-50-percent-of-its-first-60-games-in-a-particular-season-an-205999.html>
Title: A Mixed-Rate Problem
Presenter: Patrick

1 Problem

In a particular season, a team won 50% of its first 60 games and 80% of the remaining games. If the team won 60% of all of its games that season, how many games did the team play?

2 Solution

This is a fairly simple mixed-rate problem. Let G be the total number of games played.

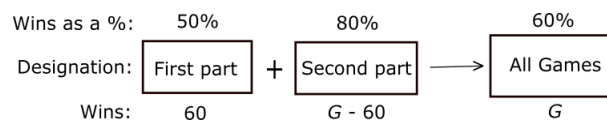


Figure 2. Standard mixed-rate problem. We'll convert percentages to decimals to balance on wins on both sides.

Time to balance on wins on both sides

$$.50(60) + .80(G - 60) = .60G, \tag{1}$$

which has the solution $G = 90$.