

# The Weekly Rigor

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No. 356

“A mathematician is a machine for turning coffee into theorems.”

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## 50 Word Problems Involving Rational Equations

(Part 6)

21. A car travels 700 km. A second car travels the same distance 30 km/h slower and takes 3 hours longer. Find their speeds. (Hint:  $\frac{700}{x} + 3 = \frac{700}{x-30}$ )

22. John and Bob enter a 330 km race. Bob rides 5km/h faster than John but gets a flat that takes 30 minutes to repair. They both finish the race at the same time. Find their speeds.

23. David ran a 2000 meter race. Later he rode his bike along the same course averaging 4m/s faster. It takes him 3 minutes, 20 seconds less time. How fast was he running?

24. Laney drove from Las Vegas at 80 km/h. Drew left Las Vegas one hour later and drove along the same road at 100 km/hr. How far from Las Vegas did Drew overtake Laney?

25. Car A travels 30 km/hr slower than Car B. While Car A travels 450 km, Car B travels 600 km. Find their speeds.

“Only he who never plays, never loses.”

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Written and published every Saturday by Richard Shedenhelm

WeeklyRigor@gmail.com