

The Weekly Rigor

No. 351

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

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50 Word Problems Involving Rational Equations

(Part 1)

PROBLEMS

Proportion

1. Sandra's car uses 20 gallons of gas to travel 400 miles. If she currently has 7 gallons of gas in her car, how much gas is needed to travel 200 miles?

2. Biologists tagged 900 rabbits in Bryer Lake national park. At a later date, they found 6 tagged rabbits in a sample of 2,000. Estimate the total number of rabbits in Bryer Lake national park.

3. In a chemistry class, 5 out of every 7 students are girls. If there are 70 students in the class, how many are girls?

4. A large painting has a length of 18 inches and a width of 12 inches. If each dimension is reduced by x inches to make the ratio of length to width 5 to 3, what is the value of x ?

“Only he who never plays, never loses.”

Written and published every Saturday by Richard Shedenhelm

WeeklyRigor@gmail.com