

# The Weekly Rigor

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No. 352

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

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## 50 Word Problems Involving Rational Equations (Part 2)

5. A class has 57 total students. The ratio of girls to boys is 4 to 15. How many boys need to leave for the ratio of girls to boys to be 4 to 11?

6. The numerator of a fraction is 3 less than its denominator. If 7 is added to the numerator and denominator, the resulting fraction equals  $\frac{3}{4}$ . What was the original fraction?

7. A positive integer is 4 less than another. The sum of the reciprocals of the two positive integers is  $\frac{10}{21}$ . Find the two integers.

8. A positive integer is twice another. The sum of the reciprocals of the two positive integers is  $\frac{3}{10}$ . What are the two integers?

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“Only he who never plays, never loses.”

Written and published every Saturday by Richard Shedenhelm

WeeklyRigor@gmail.com

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