

# The Weekly Rigor

No. 296

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

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## 10 Problems in Solving First-Degree Inequalities Involving Fractional Forms (Part 2)

7.  $\frac{1}{4}x - \frac{4}{3}x < -13.$

8.  $x + \frac{2}{7} > \frac{x}{2} - 5.$

$$9. \frac{x-1}{3} + \frac{x+2}{5} \leq \frac{3}{5}.$$

$$10. \frac{4-x}{5} + \frac{x+1}{6} \geq 2.$$

### ANSWERS

1. $(4, \infty)$	2. $(4, \infty)$
3. $(5, \infty)$	4. $(-\infty, 3)$
5. $(-\infty, 36)$	6. $(-\infty, 4]$
7. $(12, \infty)$	8. $(-\frac{74}{7}, \infty)$
9. $(-\infty, 1]$	10. $(-\infty, -31]$

“Only he who never plays, never loses.”