

# The Weekly Rigor

No. 354

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

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## 50 Word Problems Involving Rational Equations

(Part 4)

13. A river has a current of 3 miles per hour. A boat takes the same amount of time to go 24 miles downstream as it does to go 12 miles upstream. What is the speed of the boat in still water?

14. Bob drove 404 km from Edmonton to Banff in the same length of time as Jane took to drive 364 km from Edmonton to Jasper. If Bob travelled 10 km/h faster than Jane, find their speeds.

15. The Snake River has a current of 8 miles per hour. Find the speed of Tom's boat in still water if it goes 210 miles downstream in the same time it takes to go 98 miles upstream.

16. The speed of a stream is 4 mph. A boat travels 6 miles upstream in the same time it takes to travel 12 miles downstream. What is the speed of the boat in still water?

“Only he who never plays, never loses.”

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