

I U P U I
MATH CLUB TEASER #5

October 31, 2008
(due November 7, 2008)

SOLUTION

Blair keeps \$7 and Jason keeps \$1.

If this does not seem correct to you, bear in mind that both of them benefited from the burning of each other's logs. Blair should get \$5 from the Professor, but should pay \$3 to Jason for the use of his logs. At the same time, Jason should get \$3 from the Professor, but should pay \$5 to Blair for the use of her logs. The total tally is \$7 for Blair and \$1 for Jason as claimed.

A more convincing argument is to split each log into three blocks. Each person uses 8 of the resulting 24 blocks. The Professor paid \$1 for each block he used. Blair used 8 of the 15 blocks she contributed, so she should be paid for the remaining 7, while Jason used 8 of the 9 blocks he contributed and should be paid for the remaining one.

SOLVED BY:

Captain Nemo, Dream Team, the Geodesic Giant,
~~Men~~ People at Work, the Residues.