

Math 71

A wine company needs to blend a California wine with a 5% alcohol content and a French wine with a 9% alcohol content to obtain 200 gallons of wine with a 7% alcohol content. How many gallons of each kind of wine must be used?

Math 71

A coin purse contains a mixture of 15 coins in dimes and quarters. The coins have a total value of \$3.30. Determine the number of dimes and the number of quarters in the purse.

Math 71

You invested \$11,000 in stocks and bonds, paying 5% and 8% annual interest, respectively. If the total interest earned for the year was \$730, how much was invested in stocks and how much was invested in bonds?

Math 71

A motorboat traveled 36 miles downstream, with the current in 1.5 hours. The return trip upstream, against the current, covered the same distance, but took 2 hours.. Find the boat's rate in still water and the rate of the current.

Math 71

A certain brand of razor blades comes in packages of 6, 12 and 24 blades, costing \$2, \$3, and \$4 per package, respectively. A store sold 12 packages containing a total of 162 razor blades and took in \$35. How many packages of each type were sold?

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At a college production of *Streetcar Named Desire*, 400 tickets were sold. The ticket prices were \$8, \$10, and \$12, and the total income from ticket sales was \$3700. How many tickets of each type were sold if the combined number of \$8 and \$10 tickets was 7 times the number of \$12 tickets sold?