

Classroom Problems for Intermediate Algebra #8

- 1) If Ben can paddle a canoe 16 miles down river in 1 hour but it takes him 4 hours to paddle the canoe back up the river to where he started, what is the current of the river and how fast is Ben paddling?
- 2) On Saturday, Jake bought 5 gallons of standard paint and 8 gallons of premium paint for a total cost of \$298. On Sunday, he went back to the store and bought 9 gallons of standard paint and 3 gallons of premium paint for \$240. How much did he pay for each type of paint?
- 3) The difference of Chelsea's and Taylor's ages is sixty-five less than triple Taylor's age. If twice the sum of their ages is sixty-seven more than Chelsea's age, how old are Chelsea and Taylor?
- 4) Julie has \$8.13 in change consisting of pennies nickels and quarters. If the amount of nickels is twice the difference of the quarters and pennies and she has 69 total coins, how many pennies, nickels, and quarters does she have?
- 5) Patty flies 756 miles from Allentown to Atlanta and it takes her plane 2 hours to get there with a tail wind. The flight back home takes 3 hours with a head wind. How fast was Patty's plane flying and how strong was the wind?
- 6) The sum of Tori's three test grades in this class will be 225. Triple the difference of her grades on the third and first tests is 96 less than double her middle grade. If the sum of the first and second grades is 57 more than the last grade, what did she get on each test?
- 7) A theater sells 126 tickets and its gross receipts for the night were \$1,191. Adult tickets cost \$11 each, senior tickets cost \$8 each, and kids tickets cost \$5 each. If the amount of adult tickets sold is twice the sum of the senior and kids tickets sold, how many of each type of ticket was sold?