MATH 3305
Proportion and Algebra

GUIDE 1
Dr. Swienciki
1. You took your 3rd grade class to the Happy Dreams Amusement Park. The parents have raised the money for the rides. One-half of the money was spent on the carousel rides. One-fourth was spent for rides on the Ferris Wheel. After you paid for the carousel and Ferris wheel rides, $56 was left over. Half of what was left over was spent on the Wild Duck rides. How much money was spent on each of the rides?

Carousel: $ ________
Ferris Wheel: $ ________
Wild Duck: $ ________
Amount Left Over, After All Three Rides Were Paid: $ ________

If the carousel ride is $1.00/student, the Ferris Wheel is $2.00/student, and the Wild Duck is $1.00/student, how many rides of each type were made?

Carousel: ________ rides
Ferris Wheel: ________ rides
Wild Duck: ________ rides
Final Amount Left Over: $ ________

If there is another ride called Alice’s Tea Cup ride and it cost $2.00/student, how many rides can be made with the money left over?

Alice Tea Cup ________ rides
2. Juan gave one-fourth of his monthly salary to his mother, since he lives at home. One-half of his salary went for his car payment, insurance, and operating expenses. He was able to save one-third of what was left over. He put $400 into his savings.

What was Juan’s salary each month? _________

How much money did Juan give his mother each month? _________

How much money did Juan have left over, after paying his mother, his expenses, and savings? _________
You are entertaining your brothers and sisters by taking them to a candy store, where you intend to buy jellybeans. You find red, green, blue, yellow, purple, black, white, and orange jellybeans all sold in the same size jars. But the jar of red jellybeans is one-third full; the jar of green jellybeans is one-fourth full, and the jar of the purple jellybeans is one-half full. All of the other jars of jellybeans were completely filled.

You bought the entire jar of the red jellybeans, the entire jar of the green jellybeans, and the entire jar of the white jellybeans. Your little sister counted the jar of red jellybeans and found that there were 120 jellybeans.

(1) How many green did you buy? ________

(2) How many white jellybeans did you buy? ________

(3) How many jellybeans did you buy? ________

(4) How many purple jellybeans were in the jar in the store? ______

(5) How many jellybeans were in the store, before you bought any? _________

(6) How many jellybeans were left in the store, after you made your purchase of jellybeans? _________