

DIRECTIONS: First read through each of these REAL LIFE situations, then try to solve one or two of them. Be ready to discuss this in a few minutes.

1. My sister is a licensed aesthetician, which means she gives facials at a salon. A few years ago she called me with a concern. At that time a customer had come in wanting a facial, a manicure, and a make-over. Because the customer was having so much done the manager of the salon decided to give the customer a discount by charging only \$75 for all those services. The regular prices are listed below:

facial	\$45
make-over	\$25
manicure	\$25

This was the first time the manager had given this type of discount. When she split the \$75, she gave \$22 to the person who did the manicure, \$22 to the person who did the make-over, and \$31 to my sister for doing the facial. My sister didn't think the money had been split fairly and wanted to check with me. What would you have told her if this was your sister? If the split was unfair, how much should each person have gotten?

2. Hard to believe but true - my husband, who NEVER shops at Macy*s actually shopped there a while back. He needed a coat, and they were on sale. The sale was really good. They were already 50% off were then marked down another 20%. When he got in line to pay he was right behind a friend of ours who was also there buying only one thing - exactly the same coat! Seriously! The cashier rang up our friend by taking 70% off. He left, and the cashier rang up my husband by taking 50% off and then 20% off. Did my husband and our friend end up paying the same amount or did one get a better deal?

3. Last semester a student who had a 90% A in my Math 101 class came to me saying, "I know there's a way to figure out what I need to get in class in order to keep my A, but I can't remember how to do it." This was a class that had 800 possible points, and we had covered 575 of them so far. All that was left was a 200-point final exam and a homework journal worth 25 points. How many points had she currently earned in the class? What is the least amount of points she would need to get during the rest of the semester to keep her A? Would it be possible for her to fail?