

Worksheet 7 - Proportion and Percent

1. In a given population of men and women, 40% of the men are married and 30% of the women are married. What percentage of the population is married. For this problem, assume marriage means opposite sex marriage.
2. Rosenbaum's Roast shop sells coffee related products after marking them up by 50% over their wholesale price. At a recent sale, all the merchandice was marked down 25%.
 - What is the sale price of an espresso machine that originally cost \$35?
 - Including an additional sales tax of 5%, how much must a customer pay Mr. Rosenbaum for the espresso machine from part ???
 - What percentage of the profit does Mr. Rosenbaum ultimately make on any item sold in the sale?
3. Due to the economic disaster of the past few years, Ms. Liebeck decided to plant a $20' \times 20'$ garden this past spring. Finding this to be a good idea both economically and environmentally, she decides she wants twice the produce next year and plans to plant a $40' \times 40'$ garden. Write a paragraph explaining how you would use diagrams to help Ms. Liebeck.
4. The ratio of boys to girls in Ms. Shakarchi's class is 8 to 5 while the ratio of boys to girls in Mr. Kopka's class is 5 to 4. If there are 39 students in Ms. Shakarchi's class and 36 in Mr. Kopka's class, what is the ratio of boys to girls in the combined classes?