

Math 201 Tak-Home-Quiz 4 Fall 2009 NAME:
No Calculators! Show all your work!

1. Silvia and Juan are buying a new table and new chairs for their dining area. Chairs with arm rests are \$45; those with no arms are \$8.50 cheaper. The table is 4 times as much as a chair without arm rests. If they buy a table and six chairs, two with arms and four without, what is the total price they pay?

(a) Sketch a diagram to show the relevant sums and differences in this situation.

(b) Solve the problem.

2. A local community college has two sections of Math 201 (Sections A and B), and two sections of Math 202 (Sections C and D). Together, Sections C and D have 46 students. Section A has 6 more students than Section D. Section B has 2 fewer students than Section C. How many students are there in Section A and Section B all together?

a) Sketch a diagram to show the relevant sums and differences in this situation.

(b) Solve the problem.

3. Jane's total grocery bill, including tax, was \$51.23. There is a 9% sales tax on groceries in Mobile. How much did the goods cost without tax?

4. Write a word problem for the division $\frac{1}{2} \div \frac{1}{6}$. Then come up with a method of solving the problem that is understandable to a fourth grader.

5. Explain in detail how one can find the answer to $.6 \times .3 \times .2$ without the use of a calculator. What is the correct answer?