

Homework 4
Math 130 - Due Feb. 17, 2011

Written Problems from P&B:

Section 3.3 (p.70) # 2, 3, 5, 6, 8

Section 3.4 (p.76) # 1, 4, 5, 6, 7

Section 3.5 (p.81) # 1, 2, 4, 5, 6

To be done as a 40-minute quiz. Please show all your work, you will be graded on the presentation of your solutions as well as the mathematics involved.

1. Describe a step-by-step algorithm for multiplying two numbers written in base five, then use your algorithm to multiply $(123)_5 \times (34)_5$. Do not convert them to decimal.
2. (a) Write a word problem that can be solved with an overestimate. Write the mathematical expression showing the estimate you would use.
(b) Write a word problem that can be solved with an underestimate. Write the mathematical expression showing the estimate you would use.