

Do not use a calculator on this quiz.

Math 141 Spring 2004

NAME: _____

Quiz #5

sections 4.1-4.3

15

Seat: _____

For the mental math and estimation use the methods listed. Show your work to illustrate each method. (Do not use regular “paper & pencil” algorithms.)

2pts

1. Do this subtraction mentally using equal additions method.
Show your thoughts to illustrate this method.

942

– 895

4pts

2. Estimate $7815 + 1739$ using these two front-end methods:

a. range

b. one-column with adjustment.

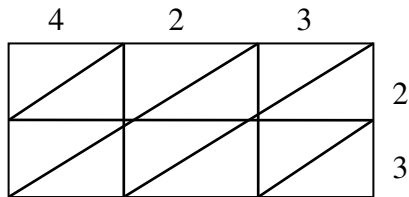
2pts

3. Estimate the following using **compatible numbers**.

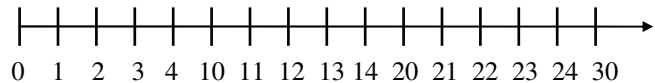
$$4352 \div 63$$

4pts

4. Multiply, in **base 5**, using the **lattice method**. (May use the standard method to check your work.)



$$\begin{array}{r} 423 \\ \times 23 \\ \hline \end{array}$$



3pts

5. Without doing any division, answer the following question:

Does $3 \mid 25743$? _____ What is the divisibility test for three?