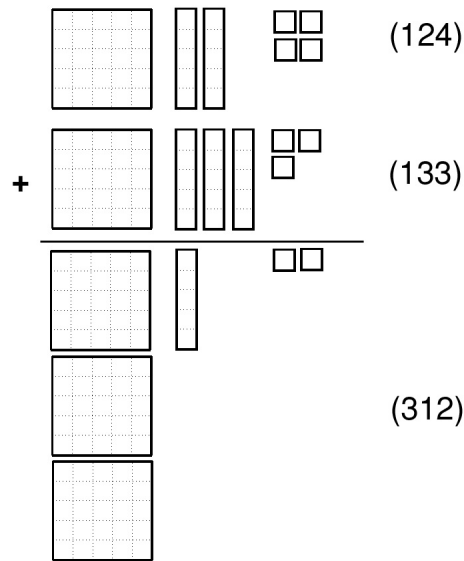


University of South Carolina
 Math 221: Math for Elementary Educators
 Instructor: Austin Mohr
 Section 001
 Spring 2010

Quiz 2

1. Evaluate $124_5 + 133_5$ using base 5 blocks. Draw a picture of the setup and the final solution.



2. Evaluate $312_5 - 134_5$ using the equal addends method.

Solution: First, let's just try to get the "4" in "134" to be a 0. Adding 1_5 to both numbers turns the problem into $313_5 - 140_5$. This is still a difficult subtraction problem (we will have to borrow to evaluate it), so we add 10_5 to both numbers to get the next digit to be 0. Now the problem is $323_5 - 200_5$, which we can easily see is 123_5 .

3. Evaluate $23_5 \cdot 24_5$ using the lattice method.

