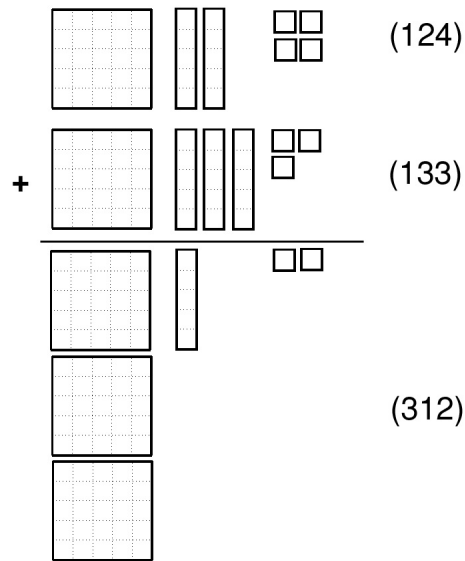


University of South Carolina  
 Math 221: Math for Elementary Educators  
 Instructor: Austin Mohr  
 Section 001  
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Quiz 2

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.

