

Math 200 - Quiz 7

March 30, 2011

Name key

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) Write an application problem involving a basic division fact in which the division is best modeled by the repeated subtraction approach.

SALLY NEEDS TO PUT 56 HERSHEY'S KISSES INTO BAGS WITH 4 KISSES IN EACH BAG. HOW MANY BAGS ARE REQUIRED?

2. (1 point) Write an application problem involving a basic division fact in which the division is best modeled by the set partition approach.

JOHN HAS A SNACK PACK CONTAINING 24 MINI CANDY BARS. HE INTENDS TO SPLIT THE CANDY BARS EQUALLY AMONG 3 FRIENDS. HOW MANY SHOULD EACH FRIEND GET?

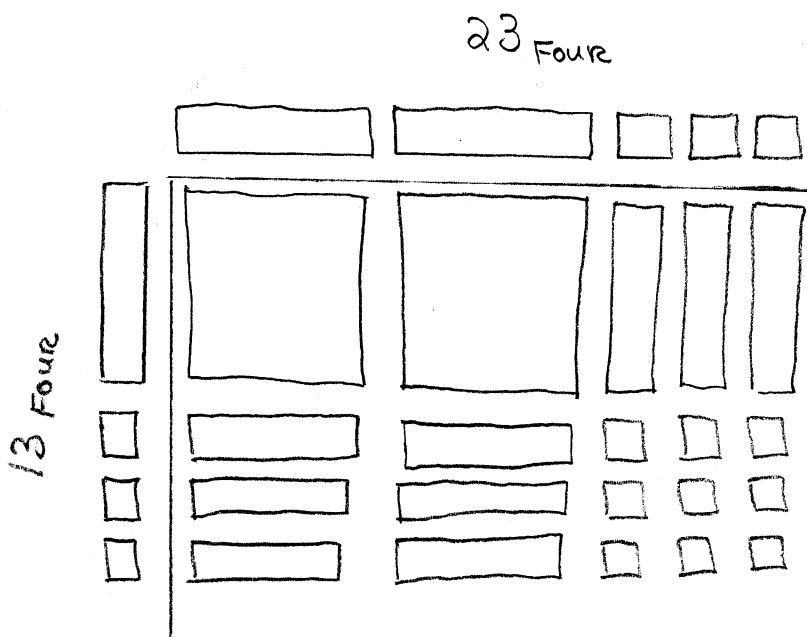
3. (1.5 points) Use a multiplication algorithm to compute $452_{\text{six}} \times 34_{\text{six}}$.

	4	5	2	
2	2	2	1	3
	0	3	0	
2	2	1	1	4
	4	2	2	
2	5	5	3	2

25532_{six}

4. (1.5 points) On the back side of this sheet use base-four blocks to illustrate and compute $23_{\text{four}} \times 13_{\text{four}}$.

OVER



2 FLATS, 9 LONGS, 9 UNITS



2 FLATS, 11 LONGS, 1 UNIT



4 FLATS, 3 LONGS, 1 UNIT



1 BLOCK, 0 FLATS, 3 LONGS, 1 UNIT

$$13_{\text{FOUR}} \times 23_{\text{FOUR}} = 1031_{\text{FOUR}}$$