Math 200 - Quiz 6 October 13, 2010

Name Key Score

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

2. (1 point) Use the comparison model to model 6-4.

3. (1 point) State the whole number addition property that justifies each of the following. Briefly explain your reasoning.

(a)
$$(5+3)+7=(3+5)+7$$

COMMUTATIVE. THE ORDER OF 3 \$ 5 CHANGED.

(b)
$$(3+2) + (4+1) = (4+1) + (3+2)$$

COMMUTATIVE. THE ORDER OF (3+2) & (4+1)
CHANGED.

4. (1 point) Give an example to show that the properties of addition are not necessarily properties of subtraction.

5. (1 point) Use one of the strategies for mastering basic addition facts to compute 8+5. Show the work or explain your reasoning.

Making 10...
$$8+5=(8+a)+3=10+3=13$$

6. (1 pt ex cred) Even though addition is a binary operation, we can write 5+7+2 without ambiguity. Which property of addition allows us to do this? Briefly explain.

ASSOCIATIVE PROP. SINCE (5+7)+2 = 5+ (7+2)
WE MIGHT AS WELL WRITE IT WITHOUT PARENTHESES.