Math 200 - Quiz 7 March 7, 2012

Name <u>key</u> Score

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

1. (1 point) Write a word problem involving the subtraction fact 6-4=2 in which the subtraction is best described using the comparison model.

THERE ARE 6 CHAIRS IN THE FIRST ROW AND 4 CHAIRS IN THE SECOND ROW. HOW MANY MORE CHAIRS ARE IN THE FIRST ROW?

2. (1 point) Use the abstract version of the set model to model the addition fact 2+3=5.

$$A = \{a,b\}$$
 $N(A) = 3$ $N(A) + N(B) = 3 + 3 = 5$
 $B = \{x,y,2\}$ $N(B) = 3$ $= N(A \cup B)$
 $A \cup B = \{a,b,x,y,2\}$ $N(A) + N(B) = 5$

3. (1 point) Is the set $\{0,1,2\}$ closed under the operation of addition? Explain.

4. (1 point) Give an example to show that subtraction is not associative.

$$8 - (5-3) = 8-2 = 6$$

Not Equal to $(8-5)-3 = 3-3 = 0$

5. (1 point) Use a partial sums algorithm to compute 598 + 376.