

Name _____

MATH 221: BASIC CONCEPTS OF ELEMENTARY MATHEMATICS I

Quiz #9

Points: Each problem is worth 4 points.

1. To use the chip model to compute $-3 - 2$ (that is, negative 3 minus positive 2), a student does the steps in the order indicated below. One of the steps needs to be clearly changed in order to make the student's use of the chip model correct. Which step needs to be changed?

- (a) The student places down 3 red chips.
- (b) Then the student puts down two red chips and two blue chips.
- (c) Then the student removes the two red chips.
- (d) Then the student concludes that the answer is negative five.

2. A person wants to mentally compute the sum

$$27 + 12 + 16 + 73 + 34 + 19 + 88.$$

The person notices that compatible numbers can be used to perform the mental computation by pairing the numbers in a convenient way. One of the numbers, however, appearing in the sum above is not part of a compatible pair. Which number is it?

- (a) 12 (b) 73 (c) 34 (d) 19