

Name _____

MATH 221: BASIC CONCEPTS OF ELEMENTARY MATHEMATICS I

Quiz #4

Points: Each problem is worth 4 points.

1. In this problem, the universe (or universal set) is the set of all humans,

$$B = \{x|x \text{ is a college basketball player}\}$$

and

$$S = \{x|x \text{ is a college student more than 200 cm tall}\}.$$

Which of the following is the set of all college basketball players that are *no* more than 200 cm tall?

- (a) \bar{S} (b) $B \cap S$
(c) $B \cup S$ (d) $B \cap \bar{S}$

2. In a fraternity with 32 members, 16 take mathematics, 5 take both mathematics and biology, and 10 take neither mathematics nor biology. How many take biology but not mathematics?

- (a) 1 (b) 6 (c) 11 (d) 16

Each multiple choice question in this class will be graded as follows. Your answer should be clearly indicated by a circle around your choice for the answer. Circle the whole answer including the letter. You will get 0 points if a wrong answer is circled (even if a correct answer is also circled), you will get 1 point if no answer is circled, and you will get 4 points for a correct answer. Do not put other marks on or around the choices. If other marks are on or around the choices (for example, if a rectangle is placed around an answer), then you will likely get 0 points for your answer depending solely on what the instructor thinks the marks indicate.