

Place your name on the back of this sheet of paper and nowhere else. Staple your answers face up on the front of this sheet of paper. Failure to follow these directions will cost you 10 points. If you use double-sided printing or print on the back of scrap paper, I will give you one additional point.

1) (15 points) What part of my webpage <http://www.WCsaplárJr.info> do you think is most helpful? Explain your logic. Is anything missing which would be helpful? If you were a Managerial Economics major, then which courses would you be taking *comps* in on Tuesday Morning? According to the boxes in yellow on my main page, which of the 25 most requested skills on LinkedIn are taught to our Economics majors?

2) (25 points) Draw a Venn diagram with a universal set of Bethany College students. Have subsets of U for fraternity, F , S for sorority, and A for athlete. Mark the areas of $F \cap \bar{A}$, and $S \cup A$. Briefly explain how you found them. Given your diagram what percentage of U are each of those areas? Briefly explain how you reached your conclusion.

3) Use the following sets to answer the following questions. Briefly state how you got each answer. The universal set is Z_+ .

$$A = \{a: a \in Z_+ \text{ and } a < 7\} \quad B = \{1, 3, 5, 7, 9, 11\} \quad C = \{1, 5, 9, 13, 17\} \quad D = \{2, 4, 6, 8\}$$

A) (10 points) $\bar{A} \cap C$

B) (5 points) $B \cap D$

C) (10 points) $A \cup B \cup C$

D) (5 points) $A \cup D$

E) (10 points) $B + D - A$

4) (5 points each) For each of these variables, determine its units, a.k.a. its dimensions. Briefly state how you found each.

A) Price of gasoline

B) The inflation rate

C) GDP

D) MPL (marginal product of labor)