Math 105—HW 5 Rubric

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The homework consisted of the following problems

- Section 3.2 (3–10, 17, 18, 23, 24, 44, 64a–g)

- Section 3.3 (9–14, 21–24, 39–42)

<u>Section 3.2</u>

4, 6, 8, 10. 3 points each. 1 point for effort. 1 point for defining any symbols they use. 1 point for correctness.

- The "defining symbols" point is awarded for defining any sets they use, e.g. $G = \{x \mid x$ is a green jellybean$\}$. If they don't define the set, S, that is okay because S is assumed to be the sample space. Finally, they don't need to redefine symbols. If they define the set G in problem 4, they don't need to redefine it for later problems in this section.

24. 8 points. 3 points for part a, 2 points for part b, 3 points for part c. Subtract 1 point from the entire problem if a student doesn't define any set names they use. E.g. if a student has a completely correct problem, but doesn't define their set names, they should receive a 7/8.

(a) 1 point for effort, 1 point for correctly computing the number of cards below 9, and 1 point for dividing this number by 52.

(b) 1 point for effort, 1 point for correctly writing the odds

(c) 1 point for writing in complete sentences, 2 points for a correct interpretation.

64. 8 points. 1 point for effort, 1 point for correctness of each part. Grade parts e,f, and g based on their answers to parts b, c, and d.

<u>Section 3.3</u>

12, 14. 4 points each. 1 point for effort, 1 point to each part for correctness. Subtract a single point from the problem if a student uses a set name for a set they have not defined.

24. 3 points. 1 point for effort, 1 point for using complements in some way, 1 point for correctness. Subtract half a point here for not defining their set names.

42. 3 points. 1 point for effort, 1 point for correctness in each part. Here, a student can use set names or brief (and clear) descriptions. If neither of those conditions is met, subtract half a point.