

# Math 105—HW 6 Rubric

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The homework consisted of the following problems

- Section 3.3 (74, 75)
- Section 3.4 (5a–d, 6, 21–26)

Note: My general guidelines for work shown:

- If a student uses a set name that hasn't already been defined, they should define the set.
- If a student doesn't use set names and the answer isn't obvious from the problem statement, they should give the computations they did to get the answer.

## Section 3.3

- 74.** There are a couple ways students could have done this. The most common is with a Venn Diagram. If they have a Venn Diagram, award 4 points for the correctness of their Venn Diagram (partial credit applies here). 1 point each for correct answers to parts a–d. If they have an error in their Venn Diagram, grade their answers to parts a–d based on the Venn Diagram that they drew (as in 2.2.2 from homework 4).

If they don't use a Venn Diagram, each part is worth 2 points: one point for showing correct work (if applicable), the other point for the correct answer.

## Section 3.4

- 6.** 4 points. 1 point for effort, 1 point for correctly counting the number of ways to win second prize, 1 point for correctly counting the number of ways of choosing the 6 numbers, and 1 point for dividing to get the correct probability.
- 22.** 9 points. Part a is worth 3 points: 1 for effort, 2 for correctness (partial credit applies). Part b is worth 3 points: 1 point for using complete sentences and 2 points for a good explanation. Part c is worth 3 points: 1 point for effort, 2 points for correctness.
- 23–26.** 4 points each. 1 point for effort. 2 points for correctly counting the size of the given event. 1 point for dividing by the sample size to get the probability. Only subtract 2 points from the group of problems if they have the wrong size of the sample space, but use that same number for each of these problems.