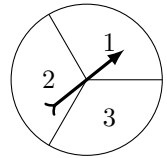


Math 101 - Exam 2
Show all of your work

Name: _____

1. Draw a tree diagram and list all the possible outcomes of spinning the following spinner twice.



2. How many even 4 digit numbers are there where the last digit is not 4? Explain.

3. How many subsets does $A = \{10, 11, 12, \dots, 20\}$ have? How many of them have at most 8 elements? Explain.

4. Five six-sided dice are rolled. What is the probability of all of them rolling a 6? What is the probability of at least one of not being a 6? Explain.

5. How many shortest paths are there from A to B ? How many of them do NOT pass through C ?

