

Name: _____

Classical Probability – Probability of an Event

Exercise 1: Omar has 3 green marbles, 2 red marbles, and 5 blue marbles. If all the marbles are dropped into a dark bag, what is the probability that Omar will pick out a green marble?

Exercise 2: In flipping a coin six times, the following sequence was observed: H, T, T, T, T, and T. What is the probability that on the seventh flip the coin will come up a tail?

Exercise 3: A pair of dice is rolled. What is the probability of getting a sum of 2?

Exercise 4: The table below lists the results of a student survey pertaining to favorite ethnic foods. Each student chose only one type of ethnic food for the survey.

Type	Number
Italian	15
Chinese	20
Japanese	3
Thai	4
Mexican	30
Other	10

Using the given table to find the probability if:

- 1) A student's favorite ethnic food is Chinese.
- 2) A student's favorite ethnic food is Mexican.

Exercise 5: A pair of fair dice is tossed. Determine the probability if:

- 1) At least one of the dice shows a 6.
- 2) The sum of the two numbers is 5.

Exercise 7: Three horses A, B, and C are in a race. A is twice as likely to win as B, and B is three times as likely to win as C. What's their respective probability of winning?

Exercise 8: The table below lists the results of a student survey pertaining to favorite types of music.

Music	Number
Rock	41
Jazz	23
Country	33
Classical	7
Rap	16

Using the given table to find the probability if:

- 1) A student's favorite type of music is jazz.
- 2) A student's favorite type of music is classical.