

Problem Set 7.2

Express each probability to three decimal places.

1) A six-sided die is rolled.

a) What's the probability of rolling a two ?

b) What's the probability of rolling a five?

c) What's the probability of rolling a two OR a five?

2) Ms. Kuchler conducted a survey of the students in her FST classes to observe the distribution of eye color. The table shows the results of the survey.

Eye color	Blue	Brown	Green	Hazel
Number	12	58	2	8

a) Find the experimental probability distribution for each eye color.

P(blue) = _____ P (brown) = _____ P(green) = _____ P(hazel) = _____

b) Based on the survey, what is the probability that a student in Ms. Kuchler's FST class has blue or green eyes?

c) If the distribution of eye color in the FST classes are similar to the distribution in the grade, about how many of the 360 students in the senior class would be expected to have brown eyes?

3) If a meteorologist says there is a 35% **chance** of snow tomorrow, what is the **probability** that it will not snow?

4) If you roll a die once, what is the probability that you will get higher than a 2?

5) If you are picking a number between 1 – 20, what is the probability that you will pick an even number or a multiple of three?

