

Lesson 14C ~ Use Probability To Predict

Name _____ Period _____ Date _____

- You plant 15 tulip bulbs and 10 of them grow into flowers that bloom. If you plant 21 more tulip bulbs, predict how many of them would bloom.
- Park rangers in Yosemite estimated the number of raccoons in one hiking area. The rangers tagged 15 raccoons in the hiking area. The following week they captured 40 raccoons. If the park rangers estimated there were 75 raccoons in the area, how many of the captured raccoons were tagged?
- Bill surveyed 20 students. He asked for their favorite type of music. Their responses are below.

Music Type	Hip-Hop	Rock	Classical	Country
Number of Students	4	8	6	2

- Find the experimental probability a student will pick each of the four types of music. Write as a simplified fraction.

Music Type	Hip-Hop	Rock	Classical	Country
Experimental Probability				

- Use the probability in **part a** to predict how many students out of 55 students would choose rock as their favorite type of music.
- Tim randomly asked 30 students who they planned to vote for in the upcoming class election. From his results, he determined about $66\frac{2}{3}\%$ planned to vote for Kelly. Based on his prediction, how many of the 30 students he interviewed planned to vote for Kelly?
 - Complete the chart to the right showing the sum of two number cubes.

- If Haley rolls the number cubes 18 times, estimate the number of times you would expect her to roll a sum of 3.
- If Haley rolls the number cubes 18 times, estimate the number of times you would expect her to roll a sum of 7.
- How many times would Haley have to roll the number cubes in order for you to expect her to roll a sum of 2?

+	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3						
4						
5						
6						