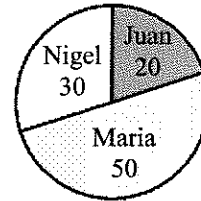


# Lesson 15 ~ Probabilities and Data Displays

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

1. Mariah randomly polled 100 students. She asked who they planned to vote for as class president. The results are in the pie chart below.

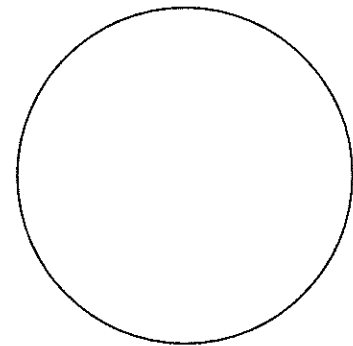
- a. Find  $P(\text{Juan})$ .
- b. Find  $P(\text{Maria})$ .
- c. Find  $P(\text{Nigel})$ .
- d. There are 400 students voting. Predict how many students will vote for Maria.



2. Kylie interviewed 40 random students to find their favorite elective class in school. The results are shown below.

Class	Art	Music	PE	Drama
Number of Students	10	20	6	4

- a. Draw a pie chart to represent Kylie's survey results.



- b. If there are 600 students in the school, use experimental probability to predict how many students favor Drama.

3. The histogram to the right shows the number of students in a math class with each grade.

- a. How many students are in the math class?
- b. Which interval would have the grade 70%?
- c. Which interval of grade was most common?
- d. Find the probability a random student chosen will be earning a B (80-90).
- e. The teacher teaches a total of 120 students in all math classes. Predict how many students are earning a B.

