

Math 21 Class Activity 2.1: Qualitative Graphs

All graphs and answers will be submitted in a StatCrunch report, which you can email to me at cosmath21@gmail.com.

The data come from a survey of 60 randomly selected COS students.

For each of the three sets of data, use StatCrunch create a pie chart (with summary).

1) Gender

Female	Male	Female	Male	Male	Female	Female	Female	Female	Female
Male	Male	Male	Male	Female	Female	Male	Male	Female	Female
Female	Female	Female	Female	Male	Female	Male	Male	Female	Male
Female	Female	Male	Female	Female	Male	Female	Female	Female	Female
Female	Female	Male	Female	Female	Female	Female	Female	Female	Female
Female	Female	Female	Male	Male	Male	Female	Female	Male	Female

2) Do you smoke?

No	Yes	No	No	No	No	No	Yes	No	No
No	Yes	No	No	No	No	No	No	No	No
No	Yes	Yes	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No	No	No
No	No	Yes	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No	No	No

3) Do you own an iPhone?

Yes	No	No	No	No	No	No	No	No	Yes
No	Yes	Yes	No	No	Yes	No	Yes	Yes	No
No	Yes	No	No	Yes	No	No	Yes	Yes	Yes
No	No	No	No	No	Yes	Yes	No	Yes	Yes
No	No	No	No	Yes	Yes	Yes	No	No	No
No	Yes	No	Yes	Yes	No	Yes	No	Yes	No

4) Based on your results, which of the following statements do you believe to be true? Explain your reasoning.

- More than half of **all** COS students are female.
- More than half of **all** COS students are nonsmokers.
- More than half of **all** COS students do not own an iPhone.

The 60 randomly selected COS students were asked to name the season when they were born – Winter, Spring, Summer, Fall. The data can be found in the StatCrunch group, labeled as “2.1 In Class Data”.

5) Create the following for these data:

- frequency distribution
- bar chart
- relative frequency distribution
- relative frequency bar chart
- pie chart

Season of Birth

Spring	Summer	Spring	Fall	Winter	Fall	Summer	Fall	Fall	Winter
Summer	Fall	Fall	Summer	Summer	Spring	Fall	Spring	Summer	Fall
Spring	Summer	Spring	Spring	Fall	Spring	Fall	Winter	Spring	Fall
Fall	Fall	Fall	Summer	Spring	Spring	Summer	Summer	Winter	Summer
Spring	Summer	Winter	Summer	Summer	Winter	Summer	Summer	Fall	Winter
Fall	Winter	Spring	Spring	Winter	Summer	Spring	Summer	Winter	Winter