

Warm Up (1.1 Day 2)

- 1 The Pew Research Center asked a random sample of 2024 adult cell phone owners from the United States which type of cell phone they own: iPhone, Android, or other (including non-smart phones). Here are the results, broken down by age category:

	18–34	35–54	55+	Total
iPhone	169	171	127	467
Android	214	189	100	503
Other	134	277	643	1054
Total	517	637	870	2024

- (a) What proportion of the sample use an iPhone?

- (b) What proportion of the sample use an iPhone and are 55+?

- (c) What proportion of the 55+ people in the sample use an iPhone?

- (d) What proportion of the iPhone users in the sample are 55+?

2. Which question above is asking for *conditional relative frequency*?

Joint relative frequency?

Marginal relative frequency?

3. What does it mean for two variables to have an association?

4. What can you make that allows you to “see” if there is an association between two categorical variables?