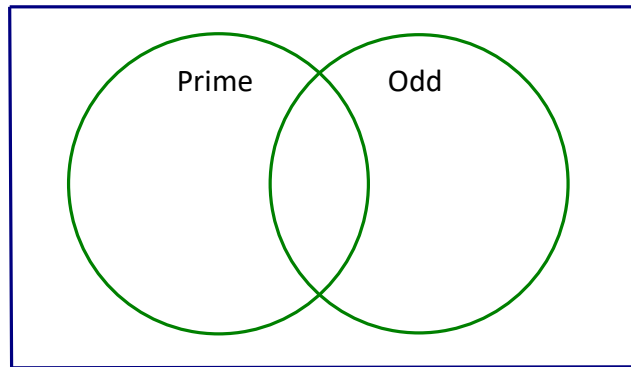


Start-up

1. Consider the set of all integers from 1 to 10. Create a Venn diagram with all 10 integers in the set.



Let set A be the outcomes of prime numbers and set B be the outcomes of odd.

a. Find $A \cap B$. What does it represent?

b. Find $A \cup B$. What does it represent?

c. Find $(A \cup B)'$. What does it represent?

2. Felipe surveyed students at his school. He found that 78 students own a cell phone and 57 of those students own an iPad. There are 13 students that do not own a cell phone, but own an iPad. Nine students do not own either device. Construct a two-way frequency table to summarize the data.

	iPad	No iPad	Total
Cell Phone			
No Cell phone			
Total			

a. $P(\text{Cell Phone})$

b. $P(\text{iPad})$

c. $P(\text{No Cell Phone} \cap \text{iPad})$

d. $P(\text{Cell Phone} \cup \text{iPad})$