

Name: \_\_\_\_\_ Hour: \_\_\_\_\_ Date: \_\_\_\_\_



## Can You Taco Tongue and Evil Eyebrow?



Some people believe that the ability to taco tongue and evil eyebrow is something that you are born with. Is this true? Are the two abilities somehow related?

1. Collect class data to fill in the following two-way table.

		<b>Evil Eyebrow</b>			Totals
		No	Sort of	Yes	
<b>Taco Tongue</b>	Yes				
	No				
Totals					

2. Suppose that we randomly choose a student from class. Find the following probabilities.

$$P(\text{No Evil Eyebrow}) =$$

$$P(\text{Sort of Evil Eyebrow}) =$$

$$P(\text{No Evil Eyebrow OR Sort of Evil Eyebrow}) =$$

3. Suppose that we randomly choose a student from class. Find the following probabilities.

$$P(\text{Yes Taco Tongue}) =$$

$$P(\text{Yes Evil Eyebrow}) =$$

$$P(\text{Yes Taco Tongue OR Yes Evil Eyebrow}) =$$

4. Suppose that we randomly choose a student from class. Find the following probabilities.

$$P(\text{Yes Evil Eyebrow}) =$$

$$P(\text{Yes Evil Eyebrow, given the person is Yes Taco Tongue}) =$$

$$P(\text{Yes Evil Eyebrow, given the person is No Taco Tongue}) =$$

5. What do your results from #4 tell you about the ability to Taco Tongue and the ability to Evil Eyebrow?