Two Way Frequency Table – *Allows us to organize and visualize our data so we can determine probabilities*

****Have a pet:

No pet:

Have a pet and prefer comedies:

Have a pet and prefer horror:

No pet and prefer comedies:

No pet and prefer horror:

In band:

Not in band:

In band and in chorus:

In band and not in chorus:

Not in band and in chorus:

Not in band and not in chorus:

Independent – *The first action does not affect the second action*

**Complete each two way frequency table below**



**Create your own scenario:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Poll the class**:

**Create your two way frequency table**:

**Follow-up questions**:

1. Do you think your two relationships are independent, why or why not?
2. What are some ways we could use this table?