Name(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  | **Activity Guide - Interpreting Data** |  |
| --- | --- | --- |

## Finding Relationships

In order to find relationships between the preferences, you’ll do a cross tabulation of the data. That means that you don’t just count how many people liked each thing (e.g. “dog”), but how many people liked two things things together (“dogs” and “camping”). This will help you see how different answers relate to each other.

| Pets and Activities  |  | Dog | Cat | Bird | Snake | | --- | --- | --- | --- | --- | | Camping | 11 |  | 1 | 11 | | Art |  | 11111 |  |  | | Video Games | 111 | 1 |  | 1 | | Music | 111111 | 11 | 1 | 1 |  Pets and Sports  |  | Dog | Cat | Bird | Snake | | --- | --- | --- | --- | --- | | Swimming | 11111 | 111 |  |  | | Soccer | 111 | 11 | 1 | 1 | | Basketball | 11 | 111 | 1 | 1 | | Volleyball | 1 |  |  | 11 |  Activities and Sports  |  | Camping | Art | Video Games | Music | | --- | --- | --- | --- | --- | | Swimming | 11 |  | 11 | 1111 | | Soccer |  | 11 | 111 | 11 | | Basketball | 11 | 111 |  | 11 | | Volleyball | 1 |  |  | 11 | | If someone likes cats, what activity is likely their  favorite? \_\_\_\_\_\_\_\_art\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  What is one more interesting relationship between favorite pet and favorite activity?  \_people who like dogs like music more than other people \_\_\_\_\_\_\_\_\_\_\_\_\_  What are two interesting relationships between favorite pet and favorite sport?  1. \_\_\_people who like snakes like volleyball more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. \_\_\_people who like dogs like swimming more\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  What are two interesting relationships between favorite activity and favorite sport?  1. \_\_\_\_\_\_people who like swimming like music\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. \_\_\_\_\_people who like soccer like video games, but don’t like camping.\_\_\_\_\_\_\_ |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

## Reflection

How could relationships between these type of data help you to address a real world problem?

\_\_\_\_I could try to get people to adopt pets from the shelter. If they like art, I could show them cats and if they like music I could show them dogs.