

TWO-WAY TABLES

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- A two-way table is used to display and observe relationships between two sets of _____ data.
- List some examples of “categorical” data below:
- Two-way tables show us the _____, or number of times, that something occurs.

1. Lexi conducted a survey and asked participants whether they were male or female and if they preferred summer or winter. Observe the results in the two-way table below. Add each row or column to complete the “totals”, then use the table to answer each question.

	SUMMER	WINTER	TOTAL
MALE	23	27	_____
FEMALE	35	15	_____
TOTAL	_____	_____	_____

- How many males were surveyed? _____
- How many females were surveyed? _____
- How many total people were surveyed? _____
- How many people said they prefer summer? _____
- How many people said they prefer winter? _____
- How many females said they prefer winter? _____
- How many males said they prefer summer? _____

2. Martin surveyed several students and asked if they had siblings and if they lived in a one or two-story home. Use the survey results below to complete the two-way table.

SIBLINGS?	Y	Y	N	Y	Y	Y	N	N	N	Y	Y	Y	N	Y	Y	N	N	Y
ONE OR TWO STORY?	1	2	2	2	2	1	1	2	2	1	2	2	1	1	2	1	1	2

	ONE-STORY	TWO-STORY	TOTAL
SIBLINGS			
NO SIBLINGS			
TOTAL			

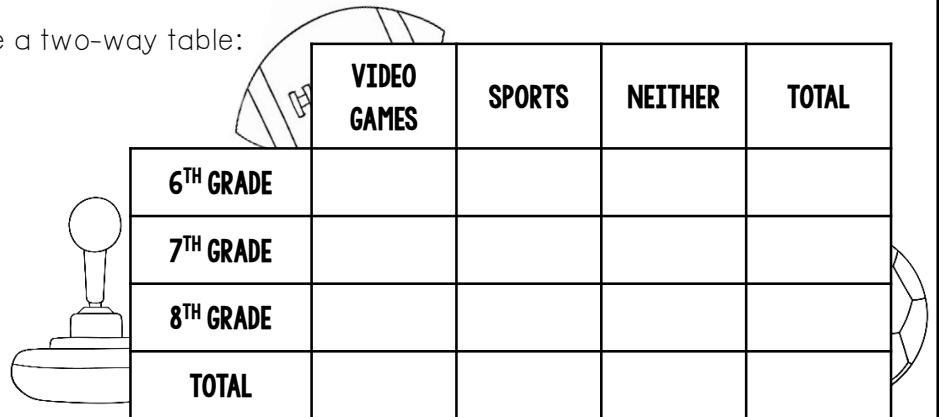
- How many people surveyed live in a two-story home? _____
- Of the people with siblings, how many answered that they live in a two-story home? _____
- How many people surveyed did not have siblings? _____

3. A group of middle schoolers was asked what grade they were in and whether they preferred video games (v), sports (s) or neither (n).

GRADE	6	6	7	8	6	8	6	7	6	8	8	7	8	6	7	8	7	8
PREFERENCE	V	V	N	N	S	V	S	S	V	V	S	S	S	S	V	S	S	S

GRADE	8	8	7	6	7	8	6	7	6	8	8	7	7	6	8	6	7	7
PREFERENCE	V	V	N	N	S	V	S	S	V	V	S	S	N	S	V	S	V	S

Use the survey results to make a two-way table:



	VIDEO GAMES	SPORTS	NEITHER	TOTAL
6TH GRADE				
7TH GRADE				
8TH GRADE				
TOTAL				

In 4-5, use what you've learned about two-way tables to fill in each blank space.

4.

	PANCAKES	WAFFLES	TOTAL
RIGHT HANDED	23	_____	50
LEFT HANDED	_____	15	_____
TOTAL	58	_____	_____

5.

	BEACH	MOUNTAINS	TOTAL
BLONDE	36	_____	90
BRUNETTE	58	42	_____
RED	27	43	_____
BLACK	_____	59	100
TOTAL	_____	_____	_____

6. Use the tables above to answer a-c.

- How many more left handed people said they liked pancakes than waffles? _____
- How many more brunette people said that they prefer the beach to the mountains? _____
- How many more right handed people said they prefer waffles than left handed people?

Summarize today's lesson: