

Today:

- Daily Problem
- Goal of the Day
- 10 min to finish quiz
- Two-Way Tables
- GimKit

Happy
Friday!



Need:

Packet

Chromebook

Bell Ringer

Write the following fractions as decimals

a.) $\frac{1}{4}$

b.) $\frac{4}{5}$

c.) $\frac{7}{9}$

Goal of the Day

I will be able to create and interpret a two-way table.

Trivia Question of the Day

On average, elephants weigh about 10,000 pounds. How much would the same elephant weigh on the moon?

About 1,700 lbs

(1/6 of its weight on Earth!)

Agenda

1.) Hand in bell ringers!

---free points!

2.) Intro to two-way tables

- Notes

3.) Have a wonderful weekend!

***3 days of school next week!

-- RAD on Thursday, no school Friday!

Categorical vs. Quantitative

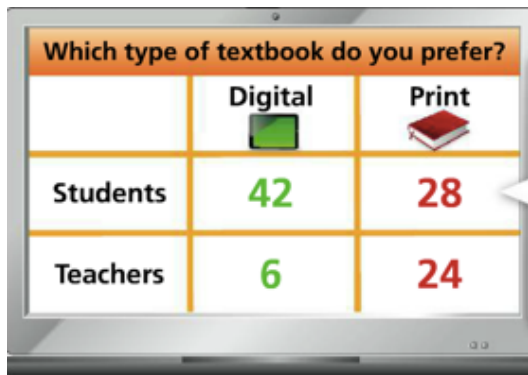
Categorical Data



- Deals with descriptions.
- Data can be observed but not measured.
- Categorical → Description

Quantitative Data

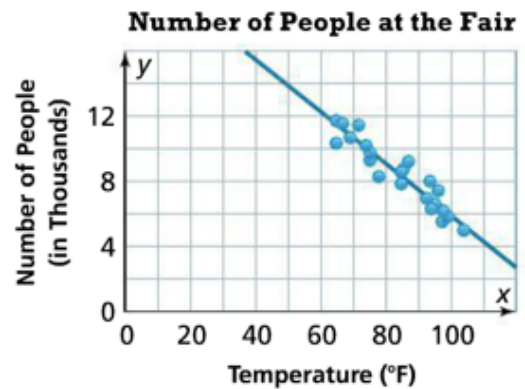
- Deals with numbers.
- Data which can be measured.
- Quantitative → Quantity

Categorical Data -



Which type of textbook do you prefer?		
	Digital 	Print 
Students	42	28
Teachers	6	24

Numerical Data -



What's the difference?

		People at School		
		Teachers	Students	Total
Textbooks	Digital	6	42	48
	Print	24	28	52
	Total	30	70	100

v.

		Textbooks		
		Digital	Print	Total
People at School	Students	42	28	70
	Teachers	6	24	30
	Total	48	52	100

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Order does not matter for categorical data!!!

Key aspects of Two Way Frequency Tables...

What's this?

	Sport Utility Vehicle (SUV)	Sports Car	Totals
male	21	39	60
female	135	45	180
Totals	156	84	240

MathBits.com



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MathBits.com

Add in both directions!

TWO-WAY TABLES

TWO-WAY TABLES

- 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.

Let's do one together!

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? _____

Filling out a Two-Way Table

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? _____

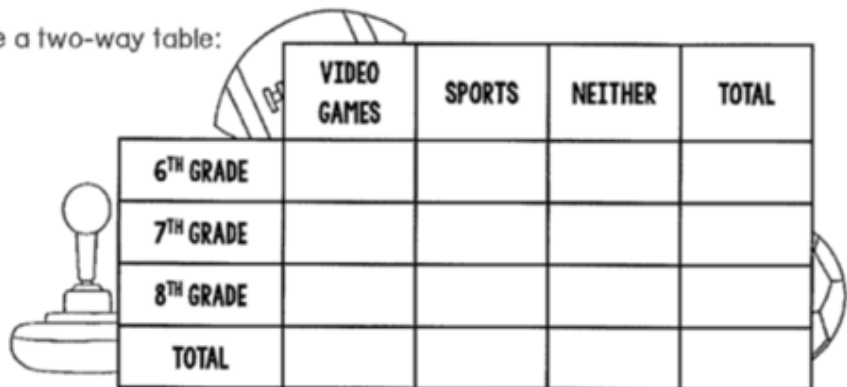
You Try! (5 min)

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
6 TH GRADE				
7 TH GRADE				
8 TH GRADE				
TOTAL				

Filling in a Two-Way Table with missing info

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

Remember to _____ in both directions

You try! (4 min)

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

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

Summary (2-3 min)

Take 2-3 min to summarize today's lesson!

Summarize today's lesson:

Homework

Two-Way Tables Wkst

1-8