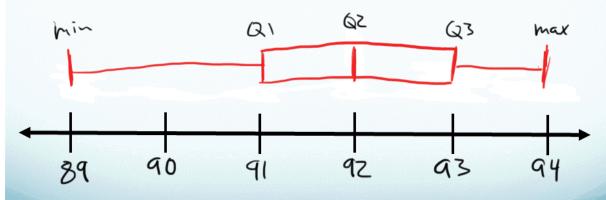
Construct a Box Plot from the following data:

Day	<u>Temperature</u>
1	89
2	89
3	91
4	92
5	92
6	92
7	93
8	93
9	94
10	92

# Warm UP (5 min)

Construct a Box Plot from the following data:

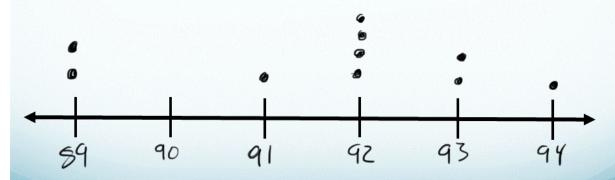
Day	<u>Temperature</u>
1	89
2	89
3	91
4	92
5	92
6	92
7	93
8	93
9	94
10	92



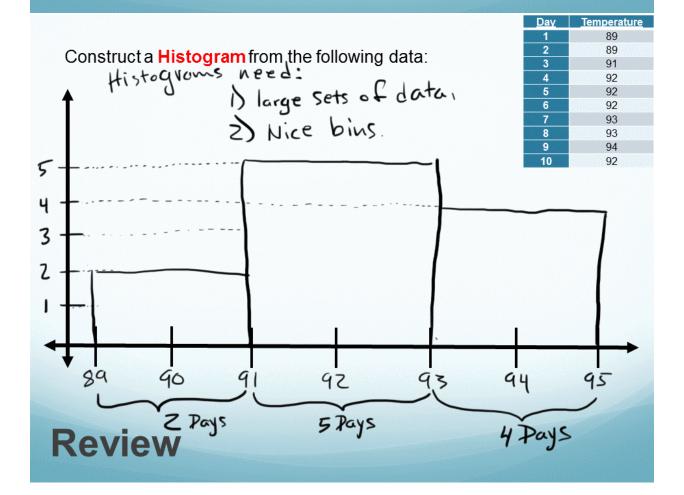
Warm UP (5 min)

Construct a **DOT PLOT** from the following data:

Day	<u>Temperature</u>
1	89
2	89
3	91
4	92
5	92
6	92
7	93
8	93
9	94
10	92



# Review



# Unit 2: Data

# Day 4/7: Two Way Frequency Tables

# u2d4 NOTES

The INDEX starts your notes for every Unit!

#### Index:

#### UNIT 2

u2d1	Dot Plots and Histograms	Page 1
u2d2	Measures of Center	Page
u2d3	Box Plots	Page
u2d4	Two-way Frequency Tables	Page
u2d5	Two-ways Frequency Tables	Page
u2d6	Two-ways Frequency Tables Review	Page
u1d7	TEST	Page

### Two-Way Frequency Tables

Class Notes----Classwork----Homework



# LETS SHOOOOT FOR IT

## Two-Way Frequency Tables

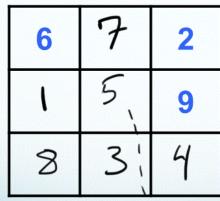
Class Notes----Classwork----Homework

	Hits	misses	Total
Boys	8	13	[2]
Girls	Inside #s ar		9
Total	13 Outside #s	More alled:	inal frequencies

LETS SHOOOOT FOR IT

# Let's start with a little magic!

## This is a Magic Square



1,3,4,5,8, Guess the

The challenge is to insert the numbers 1 – 9 in the squares, using each number only once.

\*\*\*and\*\*\*

Every column, row, and diagonal must add up to the same total: 15. Like magic!

# Understanding the magic

How did you figure out where to put each of the numbers?

6	7	2
1	5	9
8	3	4

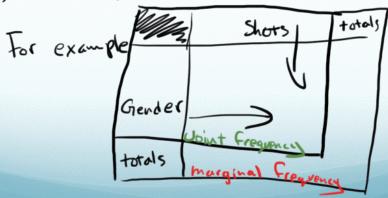
8	Μ	4
1	15	9
6	7	Z

### Two-Way Frequency Tables

Class Notes----Classwork----Homework

### Definition:

Two-Way Frequencies are nice ways to show the relationship between two sets of data.



## Two-Way Frequency Tables

Class Notes----Classwork----Homework

### Definition:

Two-way frequency tables are a visual representation of the possible relationships between two sets of categorical data.

# A total of 33 students were surveyed about which artist they like the best.

Use your knowledge of "Magic Squares" to complete the table:

	Kanye	Jay-Z	Beyonce	Total
Freshmen	Something	Plas CA.	v <sup>3</sup> (3) =	= 15
Sophomores		Something plus	5	9
Juniors		2		
Total	11	10		

	Kanye	Jay-Z	Beyonce	Total
Freshmen	6	6	3	15
Sophomores	2	2	5	9
Juniors	3	2	4	9
Total	11	10	12	33



# Vocabulary used with two-way frequency tables

		legos	painting	total	
	boys	37	8	45	
	girls	26	<b>↑</b> 14	40	The data on the edges
	total	63	22	85	of the table
				1	are called the
n	the data niddle of are called <b>oint fre</b> d	f the tab			marginal frequencies

## Two-Way Frequency Tables

Class Notes----Classwork----Homework

Vocab 1: Joint Frequency

The numbers that are in the middle that show a relationship between two catagories of data.

### Two-Way Frequency Tables

Class Notes----Classwork----Homework

Vocab 1: Marginal Frequency

The humbers on the outside that keep track of the totals



## Rainy Day Fun



The Summer Camp for Kids staff is planning an indoor activity for the campers to do on rainy days.

They are considering a Lego activity and a finger painting activity.

They send out a survey to all the kids who will be coming to the camp to find out their preferences.

A summer camp surveyed its campers. It found that of the 45 total boys, 37 preferred Legos. There are 26 girls that also prefer Legos. Fourteen girls like painting.







A summer camp surveyed its campers. It found that of the 45 total boys, 37 preferred Legos. There are 26 girls that also prefer Legos. Fourteen girls like painting.

	Legos	Painting	total
Boys	37		45
Girls	76		
total		14	

### What this two-way frequency table tells us

	Legos	painting	total
boys	37 <sub>0</sub>	8	45
girls	26	14	40 <sup>©</sup>
total	63	22 🕤	85 🦅



- 1. How many boys preferred Legos? 37
- 2. How many girls preferred Legos? <a>26</a>
- 3. How many campers preferred painting? 22
- 4. How many girls responded to the survey? 4
- 5. How many campers responded to the survey? 25

Felipe surveyed students at his school. There were 66 boys. Of those boys, 57 of them prefer 2 Chainz. 13 girls prefer 2 Chainz. 32 total students prefer Justin Bieber.



Felipe surveyed students at his school. There were 66 boys. Of those boys, 57 of them prefer 2 Chainz. 13 girls prefer 2 Chainz. 32 total students prefer Justin Bieber.

	2 Chaint	J-biebs	total
Boys	57		66
Girls	13		
total		32	

