

# Statistics

IN THE MIDDLE

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T^3 Regional Instructor

## Human Box Plot



- Order yourselves from shortest to tallest.
- Find the person in the middle.
- Find the middle of the lower half.
- Find the middle of the upper half.

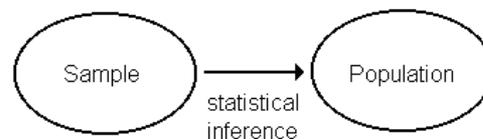
## What comes to mind when you look at these pictures?



**Inference:** a conclusion reached on the basis of evidence and reasoning

**In Statistics we use**

- >box plots
- >dot plots
- >histograms
- >bar charts
- >stem plots



**to plot our evidence.**

# Random Sampling

7.SP.A.2

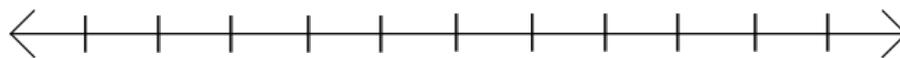
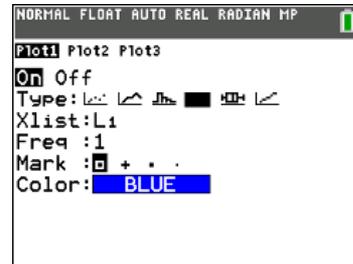
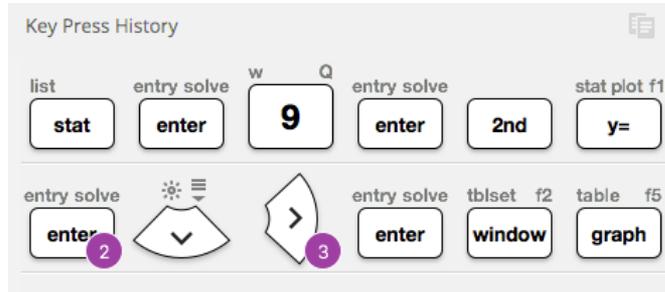
Households		Random number table									
1	Aceto M	21	Awaken E	9647	2352	6959	1937	2554	6804	9098	4316
2	Teisha C	22	Deana B	4318	2346	7276	1880	7136	9603	0163	3152
3	Maria G	23	Gabe V	7000	2885	8357	4475	9804	0042	1106	7949
4	Aaron L	24	Prize P	2932	9958	9582	2235	1140	1164	7841	1688
5	Olson V	25	Hoque H	4097	8995	5030	1785	5420	0125	4953	1332
6	Pagan B	26	Mikael J	5540	6278	1584	4392	3258	1374	1617	7427
7	Mahong P	27	Wia D	3320	8788	7658	9615	9862	7960	8140	6807
8	Njoku T	28	Hanaga B	8077	2065	2560	2091	8921	0970	3134	8441
9	Garcia N	29	Narokwe G	Selected households							
10	Aguirre C	30	Huang E	1	Maria G						
11	Mogina W	31	Tito M	2	Mahong P						
12	Anakwa W	32	Piza N	3	Moga W						
13	Wasoraba C	33	Kapua K	4	Tobias M						
14	Zongyanan M	34	Taha R	5	Wia D						
15	Tobena M	35	Koddy F	6	Gabe V						
16	Mahong F	36	Taha E	7	Wia D						
17	Yarson H	37	Tripp K	8	Tito M						
18	Elgita J	38	Olson V	9	Koddy F						
19	Horta M	39	Temple V	10	Temple V						
20	Hankin J	40	Olson V								



Math-Prob-RandInt(1,40,10)

How much time to you spend on your phone?





What is the range?

What is the median?

What does box represent?

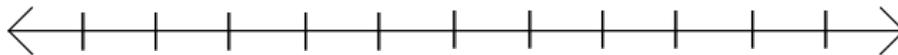
What does the upper whisker represent?

What does the lower whisker represent?

Tell me about the shape.



Data Display for Cup Stacking





**but do all of them smile.....**

1. Pick up one cup of goldfish.
2. Count the number of goldfish.
3. Count the number who are smiling.
4. Create a fraction and change to a percent.
5. Plot your result.
6. Make a guess.





it is...  
24%



I've Got The Blues!



Is there an association between how far you can throw the pool noodle with your dominant vs nondominant hand?

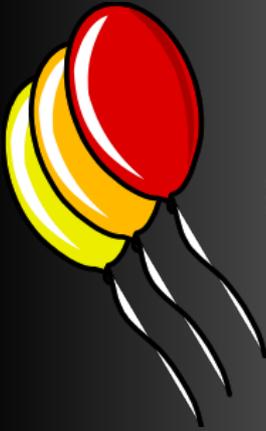
Go outside, gather data and plot best fit line.



**Middle Grades Math  
Statistics and Probability**

<https://education.ti.com/en/building-concepts/activities/statistics>

<https://education.ti.com/en/84activitycentral/us/middle-grades-math/statistics-and-prob>



Have a great rest of  
the year!!!!