

The word "Statistics" is rendered in a large, 3D, metallic font. The letters are highly reflective, showing highlights and shadows that give them a three-dimensional appearance. The background is dark and textured, possibly representing a metallic surface or a blurred motion effect.

STATISTICS

Finds and describes patterns in data

“Rob Bob,” world’s tallest high school basketball player

Algebra 1A * Ms Johnson

Austin Horner 1-2023

WHAT HAPPENED TO ROBERT BOBROCKY (2022)



**“Rob Bob”
from
Romania
was the
world’s
tallest high
school
basketball
player in
the world at
7’7”.**

**Robert was 6’2 by the time
he was in the 3rd grade,**



1:25 / 8:12 • Growing up in Romania >



WHAT HAPPENED TO ROBERT BOBROCZKY (2022)



so when he walked into that
3rd grade classroom,

WHAT HAPPENED TO ROBERT BOBROCKY (2022)



TOWERING over his
teacher!

**At age 8
Rob Bob
towered over
his 3rd grade
teacher!**

Pause (k)

1:33 / 8:12 • Growing up in Romania >

1 Player In The World! - 7'7"

@houseofhighlights

7'7"



ROBERT BOBROCZKY (2015)

Later, he joined the basketball program at the University of Rochester.

ube.com/watch?v=3_EuHpeZ9
Qc

<https://www.youtube.com/watch?v=FUijFFe566c>

WHAT HAPPENED TO ROBERT BOBROCZKY (2022)



this time with his friends
from Rochester University,

Play (k)



6:21 / 8:12 • Where is he Now? >

WHAT HAPPENED TO ROBERT BOBROCZKY (2022)



**Robert's basketball
career has come to an end.**



Play (k)



7:06 / 8:12 • Where is he Now? >



WHAT HAPPENED TO ROBERT BOBROCKZY (2022)



Rob Bob attends the **University of Rochester**. Many hoped to see him play in the NBA, but he had to recover from back surgery, and may do something else like music, or business.

0:05 / 8:12 • Intro >



The word "Statistics" is rendered in a large, 3D, metallic font. The letters are highly reflective, showing highlights and shadows that give them a three-dimensional appearance. The background is dark and textured, possibly representing a metallic surface or a blurred light effect.

STATISTICS

Finds and describes patterns in data

Algebra 1A * Ms Johnson

Austin Horner 1-26-2023

WHAT HAPPENED TO ROBERT BOBROCZKY (2022)



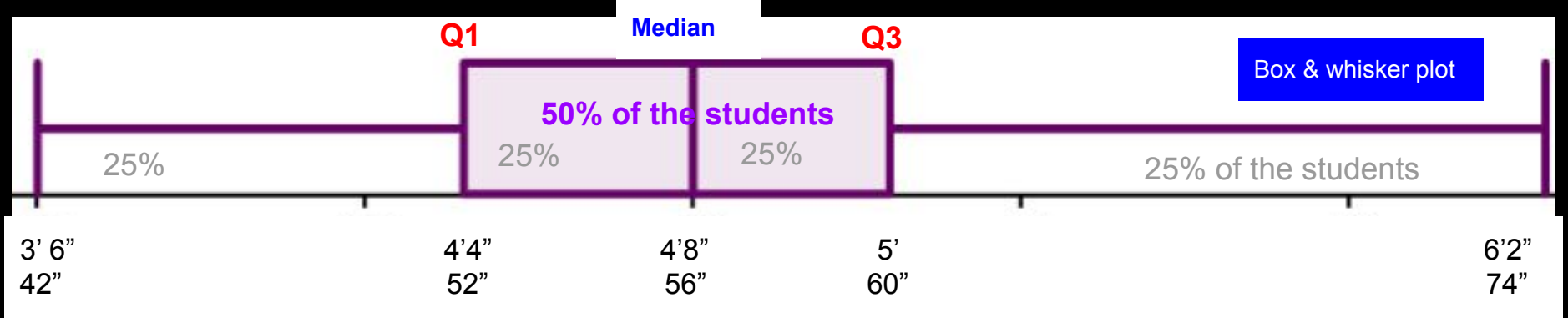
To analyze the height statistics, we arrange all of the students in order.

Robert was 6'2" by the time he was in the 3rd grade,

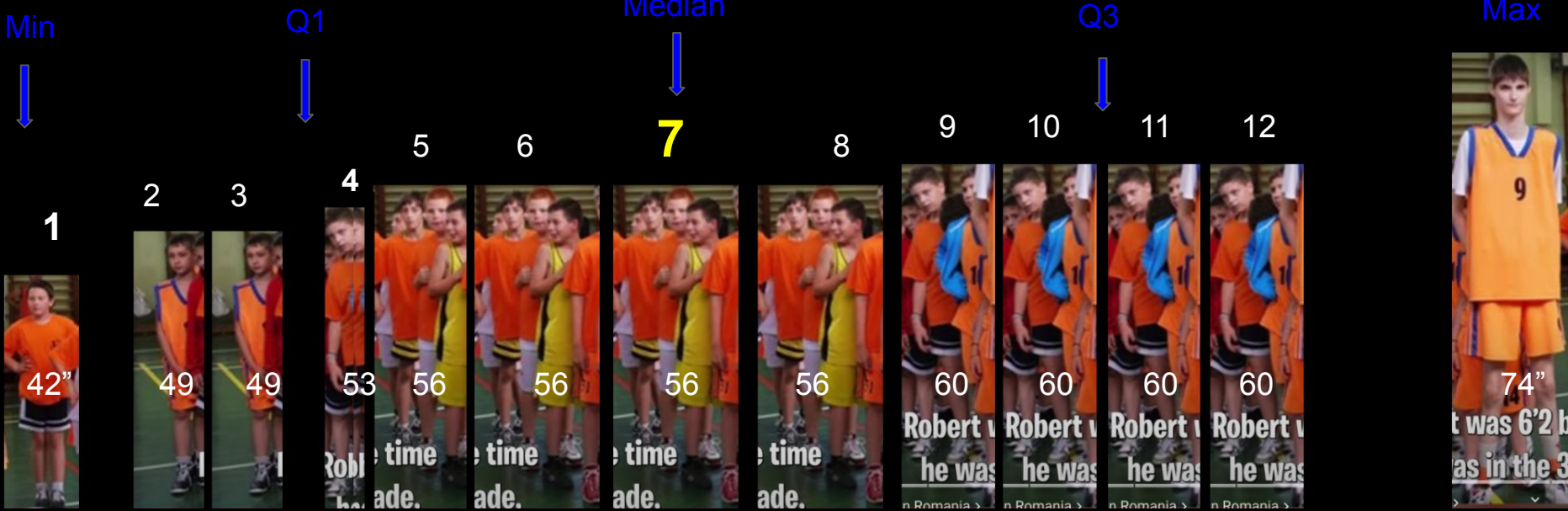
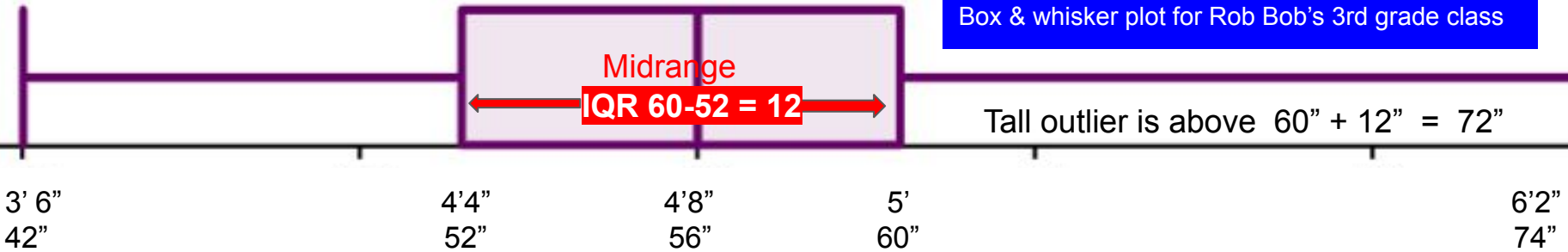
5 number summary

Rob Bob's 3rd grade class

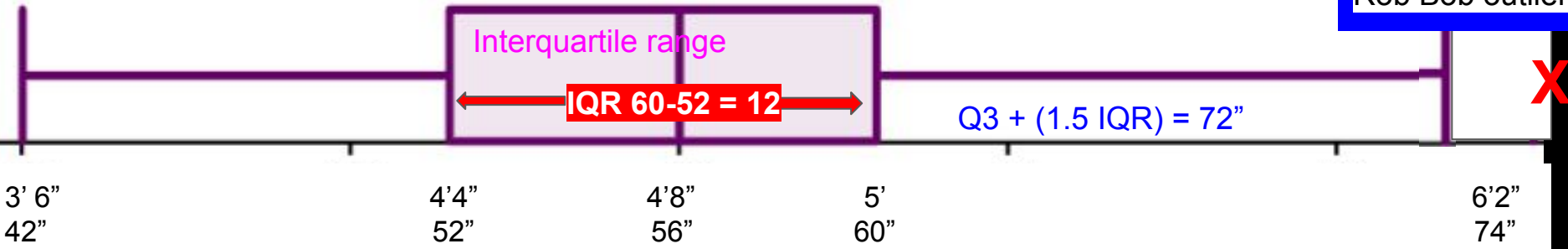


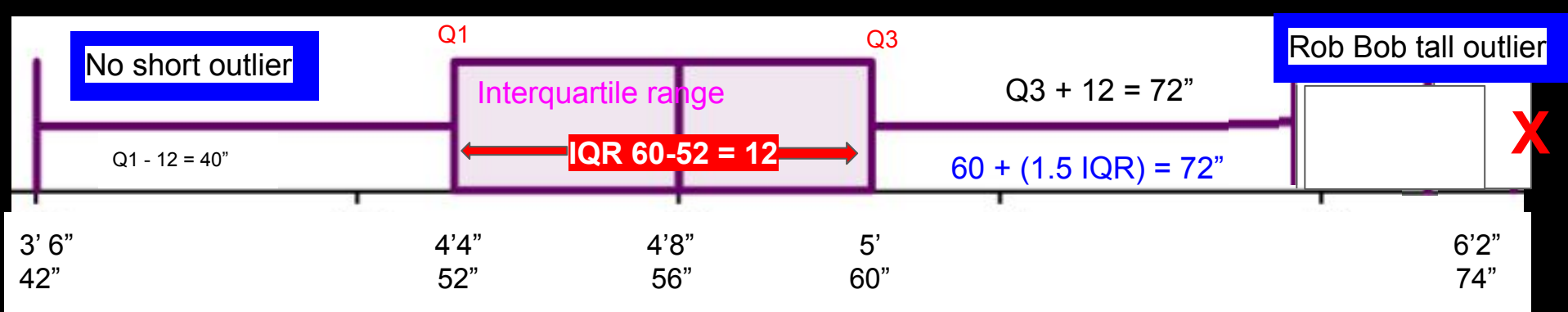


Box & whisker plot for Rob Bob's 3rd grade class



Rob Bob outlier





Rob Bob outlier

X

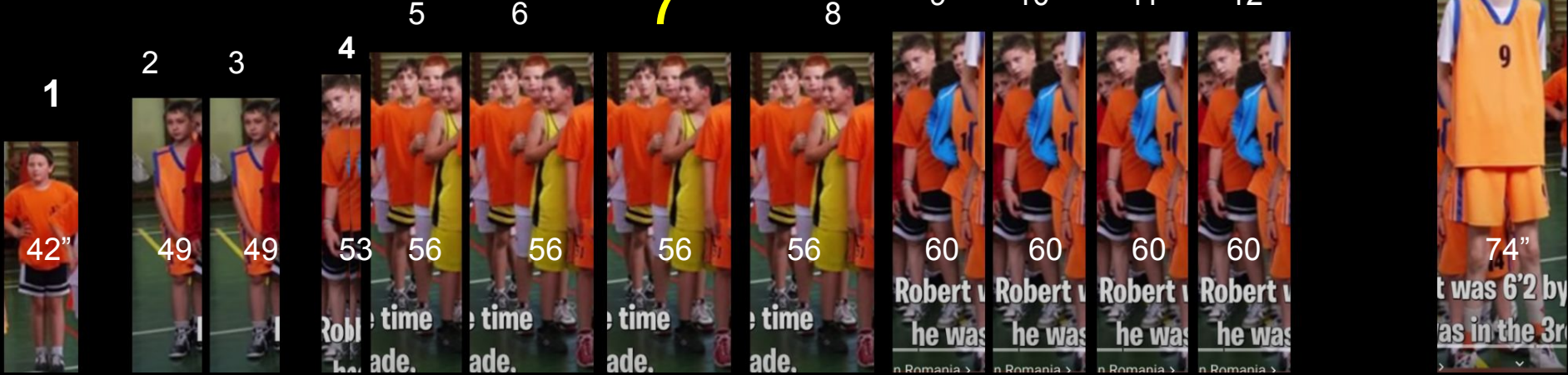
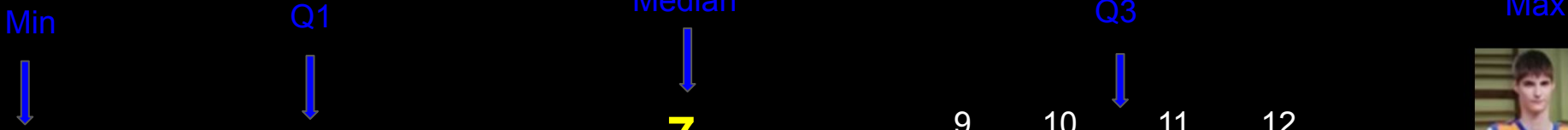


$Q3 + (1.5 \text{ IQR}) = 72''$

Error: $1.5(12) = 18$
 Outliers start at 78"
 Rob Bob NOT outlier



13
Max





**How do you
make a 5
number
summary?**



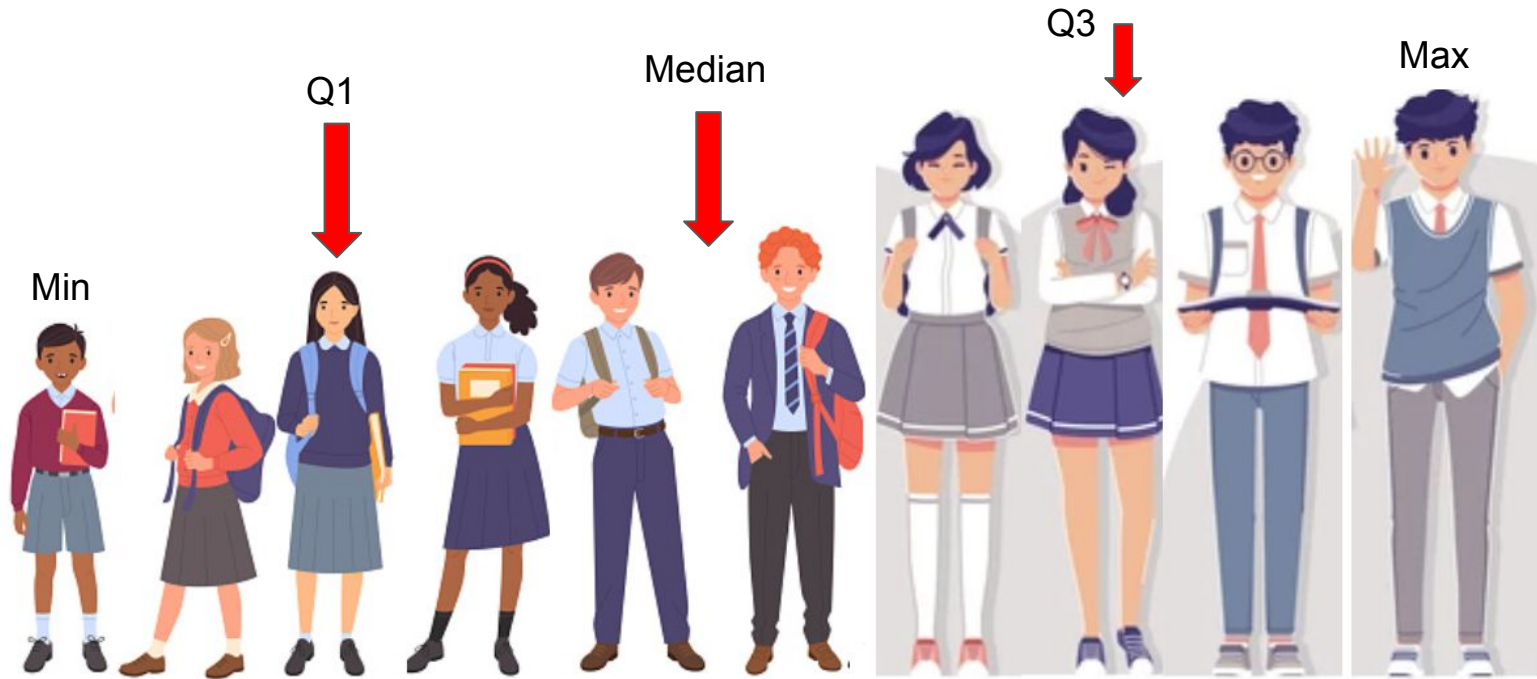
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First, arrange all the data in ascending order.



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First, arrange all the data in ascending order.

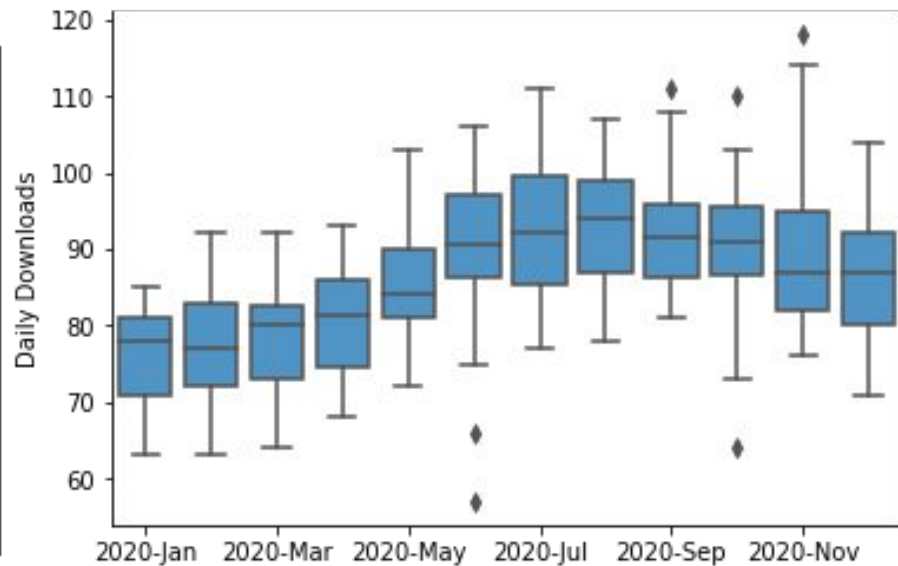
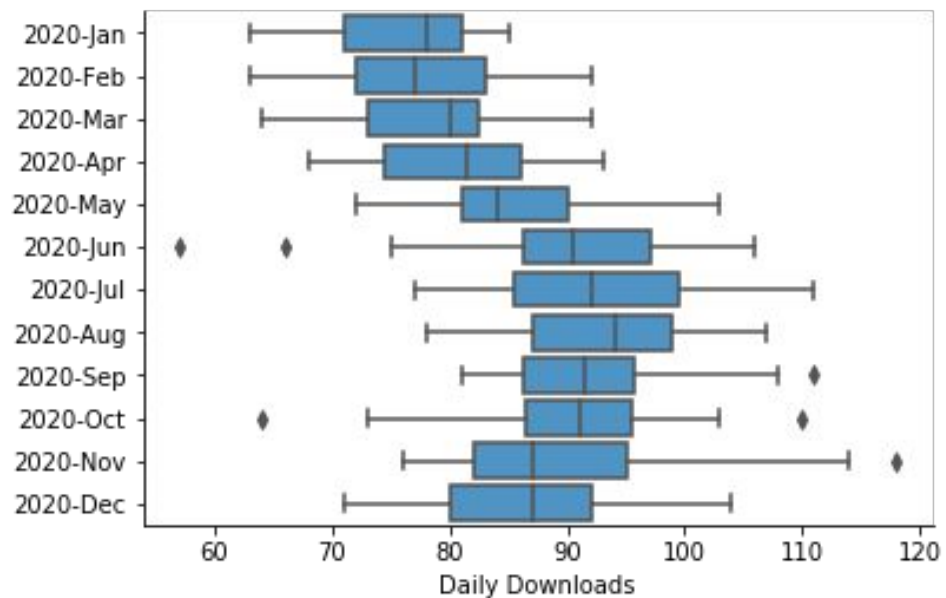


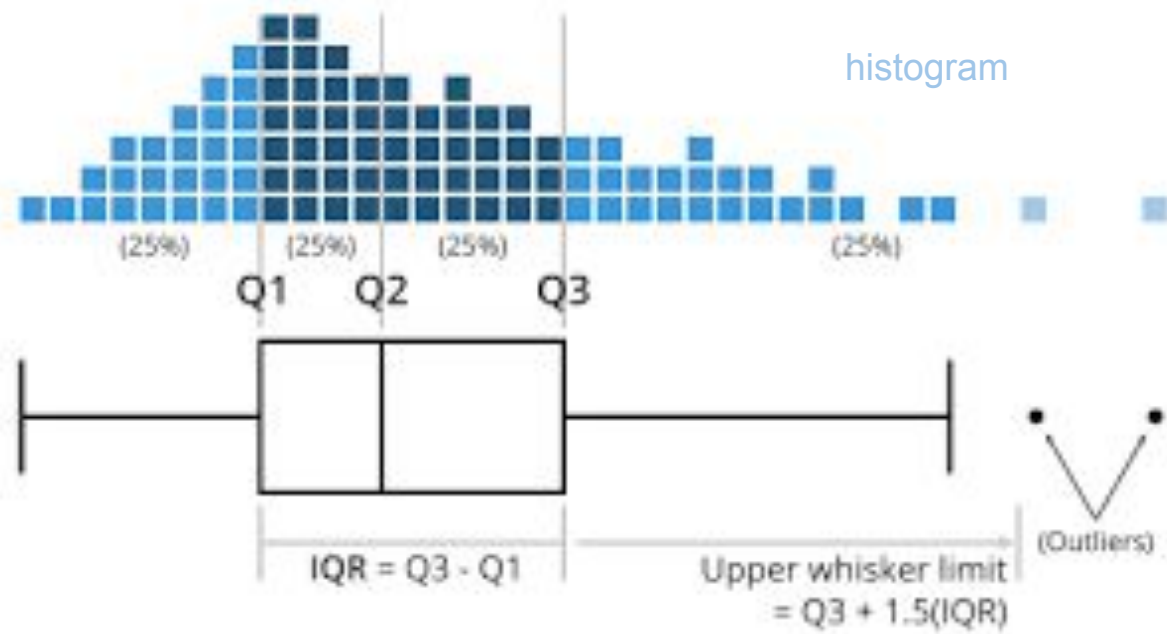
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Identify 5 number summary: Minimum and maximum. Median, then Q1 and Q3.



The IQR, the Interquartile range is $Q3 - Q1$. Use all of this info to make a box and whisker plot.





OTHER ALGEBRA 1A SEMESTER 1 REVIEW



Probability of rolling 6 twice: $(\frac{1}{6})(\frac{1}{6}) = 1/36$. Rolling 3 or a 6 is $(\frac{1}{6}) + (\frac{1}{6}) = 2/6 = 1/3$

A statistician is compiling a table summarizing results from a survey about whether seventh and eighth grade students walk or take a bus to school. The statistician gets interrupted before completing the last cell of the table.

	7 th grade	8 th grade
walks	82	96
rides bus	144	

What value should be entered into the blank cell if it is known that 40% of the surveyed eighth grade students ride the bus to school?



Correct. Good Job! Score: 100%

Let x be the missing value in the table. Then there are $96 + x$ eighth grade students who were surveyed, of which x of them ride the bus to school. So, the fraction of eighth grade students who ride the bus to school is $\frac{x}{96 + x}$. This is known to equal $40\% = 0.4$. Consequently,

$$\frac{x}{96 + x} = 0.4$$

$$x = 0.4(96 + x)$$

$$x = 0.4(96) + 0.4x$$

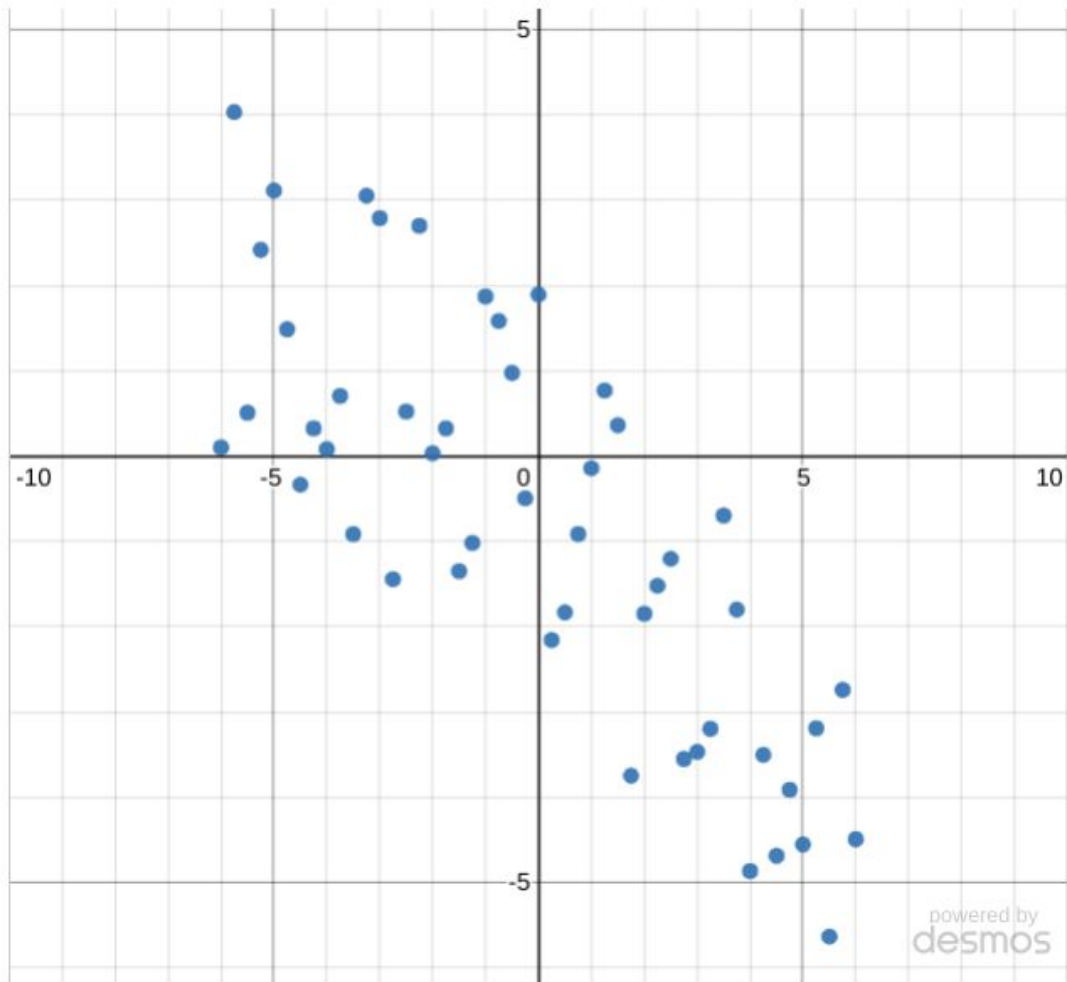
$$x - 0.4x = 0.4(96)$$

$$x - 0.4x = 38.4$$

$$0.6x = 38.4$$

$$x = \frac{38.4}{0.6}$$

$$x = 64.$$



0.9

0.1

-0.65



-0.92

 Correct. Good Job! Score: 100%

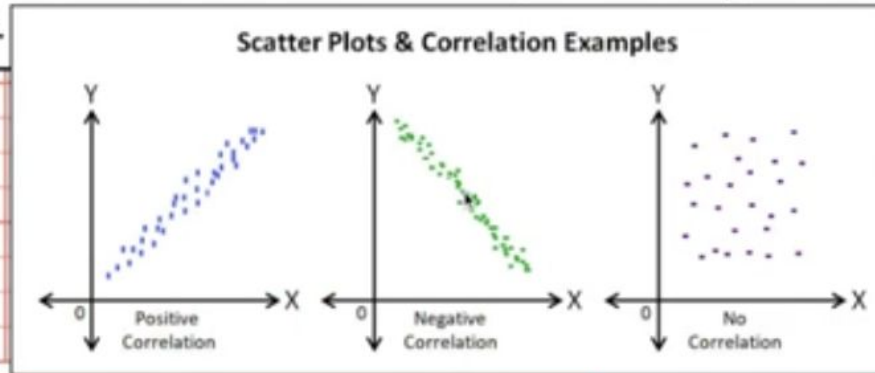
The coefficient that best fits the first graph is -0.65 because the data points are somewhat close together and fit a linear trend with a negative slope.

Correlation and Scatter Plots

Positive Correlation: as the independent variable increases, the dependent variable also increases.

Negative Correlation: as the independent variable decreases, the dependent variable also decreases.

No correlation: there is no correlation, relationship, between the two variables.



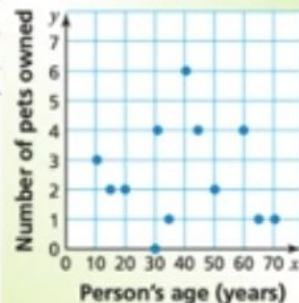
WHAT IS A SCATTER PLOT?

Key Idea

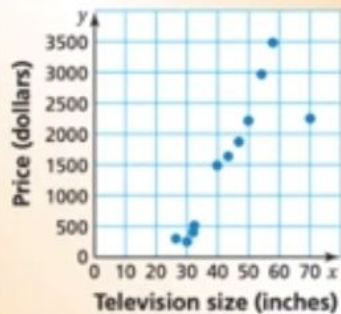
Scatter Plot

A **scatter plot** is a graph that shows the relationship between two data sets. The two sets of data are graphed as ordered pairs in a coordinate plane.

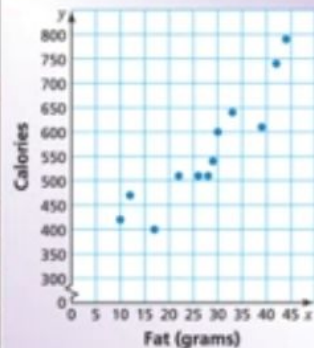
Age and Pets Owned



Television Size and Price



Restaurant Sandwiches



Practice Problems - do these along with me!

Remember, the independent and dependent variables. Which one depends on which?

What kind of relationship do these variables typically have?

- ★ Height and shoe size
- ★ Distance driving and amount of gas in tank
- ★ Hours worked and pay
- ★ Video games purchased and your bank account

Notes from Ms Johnson class



8:53 / 10:43





Statistics

CREDITS

StrictlyBBall (2022)

What happened to Robert Bobroczky. [Youtube.com](https://www.youtube.com/watch?v=...)

Geogebra.org (2022)

Box plot tool. <https://www.geogebra.org/m/r8axwgzr>

Horner, Celeste (2022)

Learning coach