

Un numero, fraccion o porcentaje que describe una parte de la informacion.

Los datos se  
muestran en una  
línea de números

MEDIA - el promedio de los valores  
MEDIANA - el número de en medio

RANCHO el máximo o mínimo mediana

Scatter plot showing data points as open circles. The x-axis is labeled "eje x" and ranges from 1 to 12. The y-axis has two scales: one from 1 to 10 and another from 11 to 12. A legend indicates that open circles represent "agrupaciones o brechas".

Existe un dato excepcional

Estándares y prácticas matemáticas

1. Mostrar datos numéricos en diagramas de puntos, histogramas y diagramas de caja mientras atendemos con precisión.

2. Construir argumentos viables y cuestionar el racismo de otros, al hacer y contestar preguntas acerca de los datos.

Título/ Enfoque:

- Como obtener:

  - ① Reune información
  - ② Analiza
  - ③ Interpreta

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¿Qué significa?

en estos datos?

Comparando los colores

The diagram shows a horizontal line representing a color spectrum. At the left end is a blue square labeled 'azul'. In the middle is a yellow square labeled 'amarillo'. At the right end is a red square labeled 'rojo'. Above the spectrum, the words 'extremo superior' are written above 'rojo'. Below the spectrum, the numbers '1' and '3' are written below 'azul' and 'rojo' respectively. To the right of the spectrum, the following labels are listed vertically: 'de más', 'mediana', 'cuartilla superior', and 'C3'.

Diagram of a circuit with a battery and a switch. The switch is labeled "abierta" (open) and "cerrada" (closed).

○ Cuál es el cuartil de inferior?  
(mediana del extremo inferior)

○ Cuál es el cuartil superior?  
(mediana de la mitad superior)

○ Cuál es la desviación media absoluta?

## La investigación

- Lo que sabemos sobre Estimación Lo que queremos aprender Estimación

5  
3/5

12% : What they are

How do you get them?

does it  
mean?

a number, fraction or percent that describes a piece of information

## Statistics

Mean:  
interpret it

data shown as V-DI

Students in Ms. Blibaris class prefer Soccer to basketball.

Box shows  
50% of the  
"Wiskers"

Mean - average 6.34  
Sum of the values ÷ the values  
a dot on a number line

What is measured or counted by the data?

## Box Plot

median - middle number 6  
 mode - most frequent # 6  
 range - maximum - minimum  
 1 - 11

Green M: 6
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## Comparing M&M Colors

A graph showing a function  $f(x)$  plotted against the x-axis. The x-axis has tick marks at -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12. The function starts at  $(-1, 1)$ , passes through  $(0, 2)$ ,  $(1, 3)$ ,  $(2, 4)$ ,  $(3, 5)$ ,  $(4, 6)$ ,  $(5, 7)$ ,  $(6, 8)$ ,  $(7, 9)$ ,  $(8, 10)$ ,  $(9, 11)$ ,  $(10, 12)$ , and ends at  $(11, 12)$ .

where are the clusters or gaps in the data? ✓

Are there any outliers?  
Outliers are values much larger or smaller than others.

group of "close together" there is no data

$\begin{array}{|c|c|c|c|} \hline & 5 & 10 & 15 \\ \hline \# of bags & 4 & 1 & 1 \\ \hline \# of red bags & 5-9 & 10-14 & 15 \\ \hline \end{array}$

**Standards and Mathematical Practices**

D) Display numerical data on dot plots, histograms and box plots, while attending to precision <sup>using exact</sup>

2) Construct viable arguments and critique the reasoning of others by asking and answering questions about the data.

	INTERVIEWING OTHERS
I can make configurations and critique others.	the mathematical thinking of unique individuals, justify and communicate my reasoning.
I can critique the reasoning of others.	-
I can critique my own reasoning.	-
I can critique the reasoning of others.	-

What did you mean when you said —  
Agreeing — is similar to —'s idea. I think  
My idea is similar to —'s idea. I want to add —  
I agree with — and want to add —  
Disagreeing — is like —  
I believe —

<u>What</u>	<u>When</u>	<u>Where</u>
U.S.	1960s	South Africa
China	1970s	North America
Iran	1979	Middle East
Yugoslavia	1990s	Europe

What we know... Statistics	What we want to learn...
They are used in sports, especially basketball and baseball.	What are statistics? Statistics is the study of <b>Data</b> . What does it mean?
With averages you can run your business better.	Why do we need to learn about them? Statistics help us analyze our world. It is often used in government, we can ask questions and get answers. Is that true?
You have to study statistics in college.	Does more mean? The number or value that occurs most often.
Statistics use lots of numbers and charts. A statistician is an expert at preparing statistics.	(populationmath.com)
How to build a bar graph	What careers use statistics?
The mean is the average! *	Business Finance Sports Politics Healthcare Education Engineering Mathematics Computer Science Physics Chemistry Biology Medicine Astronomy Geography History Literature Art Music Fashion Business Finance Sports Politics Healthcare Education Engineering Mathematics Computer Science Physics Chemistry Biology Medicine Astronomy Geography History Literature Art Music Fashion

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0

# of bags

# of red mimes in each bag

Median of the upper half

what is the mean absolute deviation?

Inquiry

29

# of m&ms in each bag  
What is the lowest quartile?  
(median of the lower half)  
What is the upper quartile?