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Graphing Calculator Investigation

A Follow-Up of Lesson 9-1

TI-73

What You'll Learn

Use a graphing calculator to make histograms.

Histograms

You can make a histogram using a TI-73 graphing calculator.



ACTIVITY

Mr. Yamaguchi's second period class has listed the distance each student lives from the school. Make a histogram.

Distance from School (miles)											
4	2	6	1	10	3	19	5	20	1	1	9
22	15	2	4	12	8	1	4	16	3	6	7

STEP 1

Enter the data.

Clear any existing data in list L1.

Keystrokes: **LIST** **▲** **CLEAR** **ENTER**

Then enter the data into L1. Input each number and press **ENTER**.

STEP 2

Format the graph.

Turn on the statistical plot.

Keystrokes: **2nd** **[PLOT]** **ENTER** **ENTER**

Select the histogram and L1 as the Xlist.

Keystrokes: **▼** **▶** **▶** **▶** **▶** **▶** **ENTER** **▼** **2nd** **L1** **ENTER**

STEP 3

Graph the histogram.

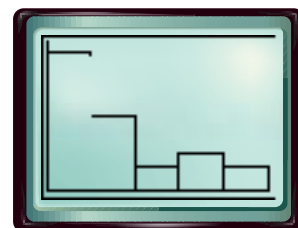
Set the viewing window to be $[0, 25]$ scl: 5 by $[0, 12]$ scl: 1. Then graph.

Keystrokes:

WINDOW **0** **ENTER** **25** **ENTER**

ENTER **5** **ENTER** **0** **ENTER**

12 **ENTER** **1** **ENTER** **GRAPH**



EXERCISES

1. Press **TRACE**. Find the frequency of each interval using the right arrow keys.
2. Discuss why the domain is from 0 to 25 for this data set.
3. Make a histogram on the graphing calculator of your classmates' heights in inches.



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Graphing Calculator Investigation

A Follow-Up of Lesson 9-1

TI-82

What You'll Learn

Use a graphing calculator to make histograms.

Histograms

You can make a histogram using a TI-82 graphing calculator.



ACTIVITY

Mr. Yamaguchi's second period class has listed the distance each student lives from the school. Make a histogram.

Distance from School (miles)											
4	2	6	1	10	3	19	5	20	1	1	9
22	15	2	4	12	8	1	4	16	3	6	7

STEP 1

Enter the data.

Clear any existing data in list L1.

Keystrokes: **STAT** **ENTER** **▲** **CLEAR** **ENTER**

Then enter the data into L1. Input each number and press **ENTER**.

STEP 2

Format the graph.

Turn on the statistical plot.

Keystrokes: **2nd** **[STAT PLOT]** **ENTER** **ENTER**

Select the histogram and L1 as the Xlist.

Keystrokes: **▼** **▶** **▶** **▶** **ENTER** **▼** **ENTER**

STEP 3

Graph the histogram.

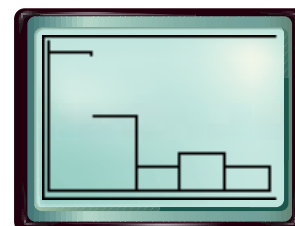
Set the viewing window to be $[0, 25]$ scl: 5 by $[0, 12]$ scl: 1. Then graph.

Keystrokes:

WINDOW **0** **ENTER** **25**

ENTER **5** **ENTER** **0** **ENTER**

12 **ENTER** **1** **ENTER** **GRAPH**



EXERCISES

1. Press **TRACE**. Find the frequency of each interval using the right arrow keys.
2. Discuss why the domain is from 0 to 25 for this data set.
3. Make a histogram on the graphing calculator of your classmates' heights in inches.



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Graphing Calculator Investigation

A Follow-Up of Lesson 9-1

Casio CFX-9850GB PLUS

What You'll Learn

Use a graphing calculator to make histograms.

Histograms

You can make a histogram using a CFX-9850GB PLUS graphing calculator.

ACTIVITY

Mr. Yamaguchi's second period class has listed the distance each student lives from the school. Make a histogram.

Distance from School (miles)											
4	2	6	1	10	3	19	5	20	1	1	9
22	15	2	4	12	8	1	4	16	3	6	7

STEP 1

Enter the data.

Clear any existing data in List1.

Keystrokes: From the Main Menu, press 2 **F6** **F4** **F1** **F6**.

Then enter the data in List1. Input each number and press **EXE**.

STEP 2

Format the graph.

Select the statistical plot.

Keystrokes: **F1** **F6** **F1**

Select the histogram and List1 as the XList.

Keystrokes: **▼** **F6** **F1** **▼** **F1** **▼** **F1** **EXE**

STEP 3

Graph the histogram.

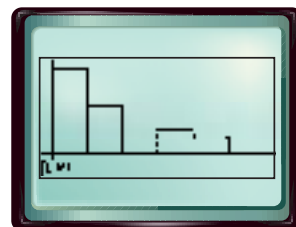
Set the viewing window to be [0, 25] scl: 5 by [0, 12] scl: 1. Then graph.

Keystrokes:

SHIFT **[V-Window]** 0 **EXE** 25

EXE 5 **EXE** 0 **EXE** 12 **EXE** 1

EXE **EXIT** **F1** **F1** 0 **EXE** 5 **EXE** **F6**



EXERCISES

1. Press **SHIFT** **[Trace]**. Find the frequency of each interval using the right arrow keys.
2. Discuss why the domain is from 0 to 25 for this data set.
3. Make a histogram on the graphing calculator of your classmates' heights in inches.



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Graphing Calculator Investigation

A Follow-Up of Lesson 9-1

Casio ALGEBRA FX 2.0

What You'll Learn

Use a graphing calculator to make histograms.

Histograms

You can make a histogram using an ALGEBRA FX 2.0 graphing calculator.

ACTIVITY

Mr. Yamaguchi's second period class has listed the distance each student lives from the school. Make a histogram.

Distance from School (miles)											
4	2	6	1	10	3	19	5	20	1	1	9
22	15	2	4	12	8	1	4	16	3	6	7

STEP 1

Enter the data.

Clear any existing data in List1.

Keystrokes: From the Main Menu, press 2 **F4** **EXE**.

Then enter the data in List1. Input each number and press **EXE**.

STEP 2

Format the graph.

Turn on the statistical plot.

Keystrokes: **F1** 5 **F1**

Select the histogram and List1 as the XList.

Keystrokes: **▼** **F6** **F1** **▼** **F1** 1 **EXE** **▼** **F1**

1 **EXE**

STEP 3

Graph the histogram.

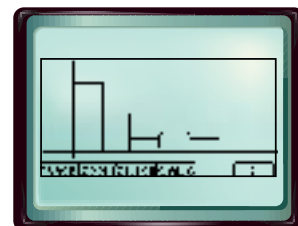
Set the viewing window to be [0, 25] scl: 5 by [0, 12] scl: 1. Then graph.

Keystrokes:

SHIFT [V-Window] 0 **EXE** 25

EXE 5 **EXE** **▼** 0 **EXE** 12 **EXE** 1

EXE **ESC** **F1** 1 0 **EXE** 5 **EXE** **EXE**



EXERCISES

- Press **F1**. Find the frequency of each interval using the right arrow keys.
- Discuss why the domain is from 0 to 25 for this data set.
- Make a histogram on the graphing calculator of your classmates' heights in inches.



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Graphing Calculator Investigation

Sharp EL-9600c

A Follow-Up of Lesson 9-1

What You'll Learn

Use a graphing calculator to make histograms.

Histograms

You can make a histogram using an EL-9600c graphing calculator.

ACTIVITY

Mr. Yamaguchi's second period class has listed the distance each student lives from the school. Make a histogram.

Distance from School (miles)											
4	2	6	1	10	3	19	5	20	1	1	9
22	15	2	4	12	8	1	4	16	3	6	7

STEP 1

Enter the data.

Clear any existing data in list L1.

Keystrokes: **STAT** **ENTER** **▲** **DEL** **ENTER**

Then enter the data into L1. Input each number and press **ENTER**.

STEP 2

Format the graph.

Turn on the statistical plot.

Keystrokes: **2ndF** **[STAT PLOT]** **ENTER** **ENTER**

Select the histogram and L1 for ListX.

Keystrokes: **▼** **ENTER** **▼** **2ndF** **[L1]** **ENTER** **▼** **2ndF** **[STAT PLOT]** **ALPHA** **[A]** **1**

STEP 3

Graph the histogram.

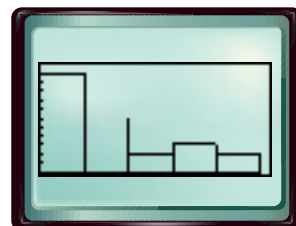
Set the viewing window to be [0, 25] scl: 5 by [0, 12] scl: 1. Then graph.

Keystrokes:

WINDOW **0** **ENTER** **25**

ENTER **5** **ENTER** **0** **ENTER**

12 **ENTER** **1** **ENTER** **GRAPH**



EXERCISES

1. Press **TRACE**. Find the frequency of each interval using the right arrow keys.
2. Discuss why the domain is from 0 to 25 for this data set.
3. Make a histogram on the graphing calculator of your classmates' heights in inches.



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Graphing Calculator Investigation

A Follow-Up of Lesson 9-1

Sharp EL-9900

What You'll Learn

Use a graphing calculator to make histograms.

Histograms

You can make a histogram using an EL-9900 graphing calculator.

ACTIVITY

Mr. Yamaguchi's second period class has listed the distance each student lives from the school. Make a histogram.

Distance from School (miles)											
4	2	6	1	10	3	19	5	20	1	1	9
22	15	2	4	12	8	1	4	16	3	6	7

STEP 1

Enter the data.

Clear any existing data in list L1.

Keystrokes: **STAT** **ENTER** **▲** **DEL** **ENTER**

Then enter the data into L1. Input each number and press **ENTER**.

STEP 2

Format the graph.

Turn on the statistical plot.

Keystrokes: **STAT PLOT** **ENTER** **ENTER**

Select the histogram and L1 for ListX.

Keystrokes: **▼** **ENTER** **▼** **2ndF** **[L1]** **ENTER** **▼** **STAT PLOT**
ALPHA **[A]** **1**

STEP 3

Graph the histogram.

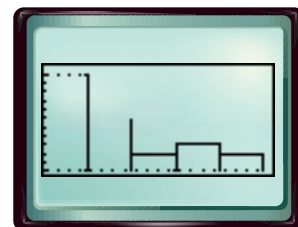
Set the viewing window to be [0, 25] scl: 5 by [0, 12] scl: 1. Then graph.

Keystrokes:

WINDOW **0** **ENTER** **25**

ENTER **5** **ENTER** **0** **ENTER**

12 **ENTER** **1** **ENTER** **GRAPH**



EXERCISES

1. Press **TRACE**. Find the frequency of each interval using the right arrow keys.
2. Discuss why the domain is from 0 to 25 for this data set.
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