

# 11-6b

# Graphing Calculator Investigation

## A Follow-Up of Lesson 11-6

TI-73

### What You'll Learn

Use a graphing calculator to make a scatter plot.

## Scatter Plots

You can use a TI-73 graphing calculator to create scatter plots.



### ACTIVITY

The following table gives the results of a survey listing the number of vehicles owned by a family and the average monthly gasoline cost in dollars. Make a scatter plot of the data.

Number of Vehicles	1	3	5	2	5	1	2
Monthly Gasoline Cost (\$)	19	59	90	55	115	35	58
Number of Vehicles	2	1	3	4	3	3	2
Monthly Gasoline Cost (\$)	80	62	77	90	80	112	63

#### STEP 1 Clear the existing data.

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

#### STEP 2 Enter the data.

Input each number of vehicles in L1 and press **ENTER**. Then enter the monthly gasoline cost in L2.

#### STEP 3 Turn on the statistical plot.

Select the scatter plot, L1 as the Xlist, and L2 as the Ylist.

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

**ENTER** **ENTER** **▼** **ENTER** **▼**

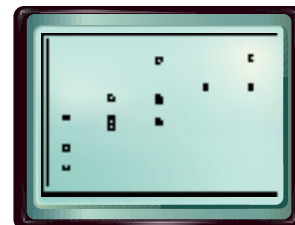
**ENTER** **ENTER**



#### STEP 4 Graph the data.

Keystrokes: **ZOOM** **7**

Use the **TRACE** feature and the left and right arrow keys to move from one point to another.



### EXERCISES

- Describe the relationship of the data.
- RESEARCH** Find some data to use in a scatter plot. Enter the data in a graphing calculator. Determine whether the data has a *positive*, *negative*, or *no* relationship.



# 11-6b

# Graphing Calculator Investigation

## A Follow-Up of Lesson 11-6

TI-82

### What You'll Learn

Use a graphing calculator to make a scatter plot.

### Scatter Plots

You can use a TI-82 graphing calculator to create scatter plots.



#### ACTIVITY

The following table gives the results of a survey listing the number of vehicles owned by a family and the average monthly gasoline cost in dollars. Make a scatter plot of the data.

Number of Vehicles	1	3	5	2	5	1	2
Monthly Gasoline Cost (\$)	19	59	90	55	115	35	58
Number of Vehicles	2	1	3	4	3	3	2
Monthly Gasoline Cost (\$)	80	62	77	90	80	112	63

#### STEP 1 Clear the existing data.

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

#### STEP 2 Enter the data.

Input each number of vehicles in L1 and press **ENTER**. Then enter the monthly gasoline cost in L2.

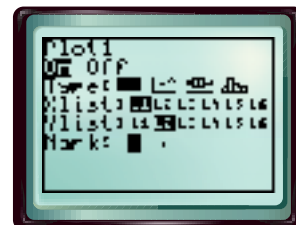
#### STEP 3 Turn on the statistical plot.

Select the scatter plot, L1 as the Xlist, and L2 as the Ylist.

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

**ENTER** **ENTER** **▼** **ENTER** **▼**

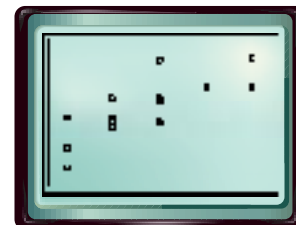
**ENTER** **▼** **▶** **ENTER**



#### STEP 4 Graph the data.

Keystrokes: **ZOOM** **9**

Use the **TRACE** feature and the left and right arrow keys to move from one point to another.



#### EXERCISES

- Describe the relationship of the data.
- RESEARCH** Find some data to use in a scatter plot. Enter the data in a graphing calculator. Determine whether the data has a *positive*, *negative*, or *no* relationship.



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# Graphing Calculator Investigation

## A Follow-Up of Lesson 11-6

Casio CFX-9850GB PLUS

### What You'll Learn

Use a graphing calculator to make a scatter plot.

## Scatter Plots

You can use a CFX-9850GB PLUS graphing calculator to create scatter plots.



### ACTIVITY

The following table gives the results of a survey listing the number of vehicles owned by a family and the average monthly gasoline cost in dollars. Make a scatter plot of the data.

Number of Vehicles	1	3	5	2	5	1	2
Monthly Gasoline Cost (\$)	19	59	90	55	115	35	58
Number of Vehicles	2	1	3	4	3	3	2
Monthly Gasoline Cost (\$)	80	62	77	90	80	112	63

#### STEP 1 Clear the existing data.

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

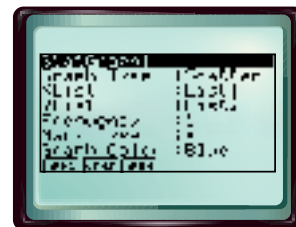
#### STEP 2 Enter the data.

Input each number of vehicles in List1 and press **EXE**. Then enter the monthly gasoline cost in List2.

#### STEP 3 Turn on the statistical plot.

Select the scatter plot, List1 as the XList, and List2 as the YList.

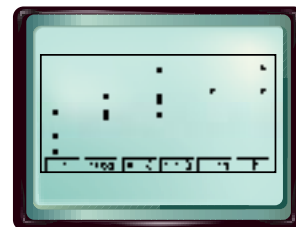
Keystrokes: **F1** **F6** **F1** **▼**  
**F1** **▼** **F1** **▼** **F2** **EXE**



#### STEP 4 Graph the data.

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

Use the **SHIFT** [Trace] feature and the left and right arrow keys to move from one point to another.



### EXERCISES

- Describe the relationship of the data.
- RESEARCH** Find some data to use in a scatter plot. Enter the data in a graphing calculator. Determine whether the data has a *positive*, *negative*, or *no* relationship.



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# Graphing Calculator Investigation

## A Follow-Up of Lesson 11-6

Casio ALGEBRA FX 2.0

### What You'll Learn

Use a graphing calculator to make a scatter plot.

## Scatter Plots

You can use an ALGEBRA FX 2.0 graphing calculator to create scatter plots.



### ACTIVITY

The following table gives the results of a survey listing the number of vehicles owned by a family and the average monthly gasoline cost in dollars. Make a scatter plot of the data.

Number of Vehicles	1	3	5	2	5	1	2
Monthly Gasoline Cost (\$)	19	59	90	55	115	35	58
Number of Vehicles	2	1	3	4	3	3	2
Monthly Gasoline Cost (\$)	80	62	77	90	80	112	63

#### STEP 1 Clear the existing data.

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

#### STEP 2 Enter the data.

Input each number of vehicles in List1 and press **EXE**. Then enter the monthly gasoline cost in List2.

#### STEP 3 Turn on the statistical plot.

Select the scatter plot, List1 as the XList, and List2 as the YList.

Keystrokes: **F1** 5 **F1** ▼

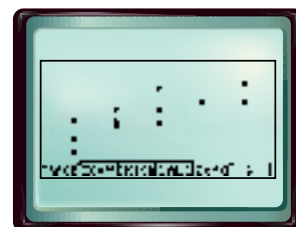
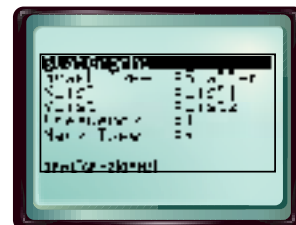
**F1** ▼ **F1** 1 **EXE** ▼ **F1**

2 **EXE** **EXE**

#### STEP 4 Graph the data.

Keystrokes: **F1** 1

Use the Trace feature and the left and right arrow keys to move from one point to another.



### EXERCISES

- Describe the relationship of the data.
- RESEARCH** Find some data to use in a scatter plot. Enter the data in a graphing calculator. Determine whether the data has a *positive*, *negative*, or *no* relationship.



# 11-6b

# Graphing Calculator Investigation

## A Follow-Up of Lesson 11-6

Sharp EL-9600c

### What You'll Learn

Use a graphing calculator to make a scatter plot.

## Scatter Plots

You can use an EL-9600c graphing calculator to create scatter plots.



### ACTIVITY

The following table gives the results of a survey listing the number of vehicles owned by a family and the average monthly gasoline cost in dollars. Make a scatter plot of the data.

Number of Vehicles	1	3	5	2	5	1	2
Monthly Gasoline Cost (\$)	19	59	90	55	115	35	58
Number of Vehicles	2	1	3	4	3	3	2
Monthly Gasoline Cost (\$)	80	62	77	90	80	112	63

#### STEP 1 Clear the existing data.

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

#### STEP 2 Enter the data.

Input each number of vehicles in L1 and press **ENTER**. Then enter the monthly gasoline cost in L2.

#### STEP 3 Turn on the statistical plot.

Select the scatter plot, L1 as the ListX, and L2 as the ListY.

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

**ENTER** **ENTER** **▼** **▶** **ENTER**

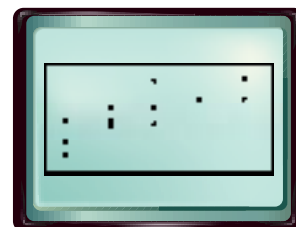
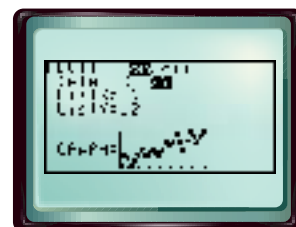
**2ndF** **[L1]** **ENTER** **2ndF** **[L2]** **ENTER**

**2ndF** **[STAT PLOT]** **ALPHA** **[G] 3**

#### STEP 4 Graph the data.

Keystrokes: **ZOOM** **9**

Use the **TRACE** feature and the left and right arrow keys to move from one point to another.



### EXERCISES

- Describe the relationship of the data.
- RESEARCH** Find some data to use in a scatter plot. Enter the data in a graphing calculator. Determine whether the data has a *positive*, *negative*, or *no* relationship.



# 11-6b

# Graphing Calculator Investigation

## A Follow-Up of Lesson 11-6

Sharp EL-9900

### What You'll Learn

Use a graphing calculator to make a scatter plot.

## Scatter Plots

You can use an EL-9900 graphing calculator to create scatter plots.



### ACTIVITY

The following table gives the results of a survey listing the number of vehicles owned by a family and the average monthly gasoline cost in dollars. Make a scatter plot of the data.

Number of Vehicles	1	3	5	2	5	1	2
Monthly Gasoline Cost (\$)	19	59	90	55	115	35	58
Number of Vehicles	2	1	3	4	3	3	2
Monthly Gasoline Cost (\$)	80	62	77	90	80	112	63

#### STEP 1 Clear the existing data.

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

#### STEP 2 Enter the data.

Input each number of vehicles in L1 and press **ENTER**. Then enter the monthly gasoline cost in L2.

#### STEP 3 Turn on the statistical plot.

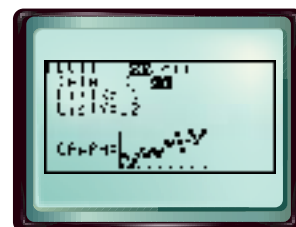
Select the scatter plot, L1 as the ListX, and L2 as the ListY.

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

**▼** **▶** **ENTER** **▼** **2ndF** [L1]

**ENTER** **2ndF** [L2] **ENTER** **STAT PLOT**

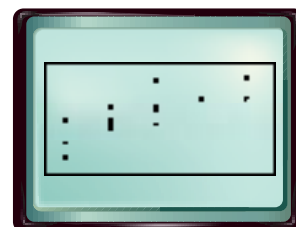
**ALPHA** [G] 3



#### STEP 4 Graph the data.

Keystrokes: **ZOOM** 9

Use the **TRACE** feature and the left and right arrow keys to move from one point to another.



### EXERCISES

- Describe the relationship of the data.
- RESEARCH** Find some data to use in a scatter plot. Enter the data in a graphing calculator. Determine whether the data has a *positive*, *negative*, or *no* relationship.

