

Representing World Wealth: Where in the world is all of the money??

Calculator Support

Calculator Support	Screen Shots																																										
<p>Entering the Data into Lists</p> <p>If needed, delete POP1 and POP2 from <i>Representing World Population</i>:</p> <p>Press list and Right Cursor over to POP1. Select POP1 and Delete. POP2 should move over to be next to REGION. Repeat for POP2</p> <p>If needed, enter the names of the regions:</p> <p>Rename LIST 7 to REGION: Press list and right cursor over to L7. Cursor Down to Name =, press 2nd math and enter the letters for REGION. Select DONE and enter.</p> <p>Enter the names of the regions: Cursor Down to REGION(1). Press 2nd math and enter "AFRIC" [Include the quotes around the first entry in a list to tell the calculator that the list will be names rather than numbers.] Select DONE and enter.</p> <p>Enter:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">REGION (1) = "AFRIC"</td> <td style="width: 50%;">REGION (4) = EUROP</td> </tr> <tr> <td>REGION (2) = ASIA</td> <td>REGION (5) = USCAN</td> </tr> <tr> <td>REGION (3) = OCEAN</td> <td>REGION (6) = LATAM</td> </tr> </table> <p><u>Enter your estimates:</u></p> <p>Rename List 8 to WLTH1: Press list and Right Cursor over to L8. Cursor Down to Name =, Press 2nd math and enter WLTH1. Select DONE and enter.</p> <p>List your wealth estimates into WLTH1: Select WLTH1. Enter your estimate for each region's percent of the world's wealth.</p> <p><u>Enter the wealth data:</u></p> <p>Rename List 9 to WLTH2: Press list and Right Cursor over to L9. Cursor Down to Name =, Press 2nd math and enter WLTH2. Select DONE and enter.</p> <p>List the actual wealth data into WLTH2: Select WLTH2. Enter the actual wealth data for each region's percent of the world's wealth.</p> <p><u>Enter the population data:</u></p> <p>Rename List 10 to POP: Press list and Right Cursor over to L10. Cursor Down to Name =, Press 2nd math and enter POP. Select DONE and enter.</p> <p>List the population data into POP: Select POP. Enter the data for each region's percent of the world's population.</p>	REGION (1) = "AFRIC"	REGION (4) = EUROP	REGION (2) = ASIA	REGION (5) = USCAN	REGION (3) = OCEAN	REGION (6) = LATAM	<p>Example:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">REGID c</th> <th style="width: 20%;">WLTH1</th> <th style="width: 20%;">WLTH2</th> <th style="width: 30%;">9</th> </tr> </thead> <tbody> <tr> <td>AFRIC</td> <td>10</td> <td>1.8</td> <td></td> </tr> <tr> <td>ASIA</td> <td>25</td> <td>25.5</td> <td></td> </tr> <tr> <td>OCEAN</td> <td>10</td> <td>1.6</td> <td></td> </tr> <tr> <td>EUROP</td> <td>25</td> <td>34.2</td> <td></td> </tr> <tr> <td>USCAN</td> <td>25</td> <td>31.8</td> <td></td> </tr> <tr> <td>LATAM</td> <td>5</td> <td>5.5</td> <td></td> </tr> <tr> <td>-----</td> <td>-----</td> <td>-----</td> <td></td> </tr> <tr> <td colspan="3">WLTH2(?) =</td> <td></td> </tr> </tbody> </table>	REGID c	WLTH1	WLTH2	9	AFRIC	10	1.8		ASIA	25	25.5		OCEAN	10	1.6		EUROP	25	34.2		USCAN	25	31.8		LATAM	5	5.5		-----	-----	-----		WLTH2(?) =			
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Using Scientific Notation

To enter 28,081 billion or 2.8081×10^{13} into the calculator, press:

2 **.** **8** **0** **8** **1** **2nd** **^** **1** **3**

Creating a Bar Graph for Actual Wealth Percents:

Press **2nd** **y=**. Select PLOT 2

Plot 2: Select ON, press **enter**

Type: Select the Bar Graph icon

CategList: Set to REGION: Press **2nd** **list**. Select **REGIO** and press **enter**.

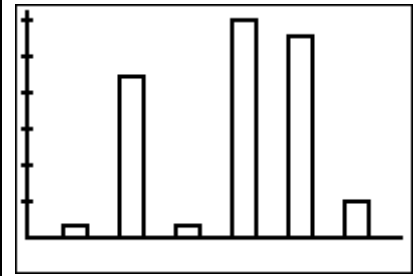
DataList1: Set to WLTH2: Press **2nd** **list**. Select **WLTH2** and press **enter**.

Ignore **DataList2** and **DataList3**.

Select **Vert**, press **enter**. Select **1**, press **enter**. (This tells the calculator that this will be a single bar graph).

Hit **graph** to display the bar graph.

```
Plot2 Off
Type:
  [Bar] [Line] [Pie] [Dot]
  [Scatter] [Histogram] [Box] [Error]
  [Other]
CategList:REGIO
DataList1:WLTH2
DataList2:L3
DataList3:L4
Vert Hor 1 2 3
```



Creating a Double Bar Graph for the Wealth Estimates and Actual Data

Turn Plot 2 OFF: **2nd** **y=**. Select Plot 2. Select OFF, **enter**.

Turn Plot 1 ON: **2nd** **y=** **enter**.

Plot 1: Select ON, press **enter**

Type: Select the Bar Graph icon

CategList: Set to REGION: Press **2nd** **list**. Select **REGIO** and press **enter**.

DataList1: Set to WLTH2: Press **2nd** **list**. Select **WLTH2** and press **enter**.

DataList2: Set to WLTH1: Press **2nd** **list**. Select **WLTH1** and press **enter**.

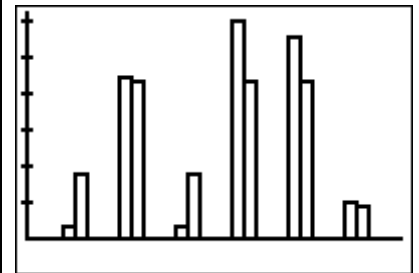
Ignore **DataList3**.

Select **Vert**, press **enter**. Select **2**, press **enter**. (This tells the calculator that this will be a double bar graph).

Hit **graph** to display the bar graph.

```
Plot1 Off
Type:
  [Bar] [Line] [Pie] [Dot]
  [Scatter] [Histogram] [Box] [Error]
  [Other]
CategList:REGIO
DataList1:WLTH2
DataList2:WLTH1
DataList3:L4
Vert Hor 1 2 3
```

Example:



Creating the Circle Graph

Turn Plot 1 OFF: **2nd** **y=** **enter** . Select OFF, **enter** .

Turn Plot 3 ON: **2nd** **y=** . Select Plot 3.

PLOT 3: Select ON.

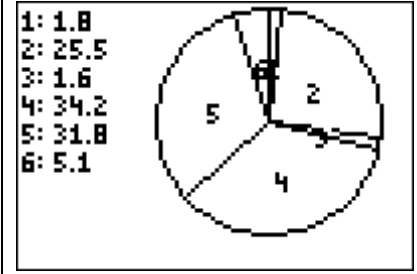
TYPE: Select Circle Graph.

CategList: Set to REGION: Press **2nd** **list** . Select **REGIO** and press **enter** .

DataList: Set to WLTH2: Press **2nd** **list** . Select **WLTH2** and press **enter** .

Select **PERCENT**

```
Plot3 Off
Type: [Pie] [Bar] [Line] [Dot] [None]
      [Box] [Grid] [HLine] [VLine]
CategList: REGIO
Data List: WLTH2
Number Percent
```



Creating a double bar graph of the population vs. wealth of each region.

Turn Plot 3 OFF: **2nd** **y=** . Select Plot 3. Select OFF, **enter** .

Turn Plot 1 ON: **2nd** **y=** **enter** .

Plot 1: Select ON, press **enter**

Type: Bar Graph

CategList: REGIO.

DataList1: Set to POP: Press **2nd** **list** . Select **POP** and press **enter** .

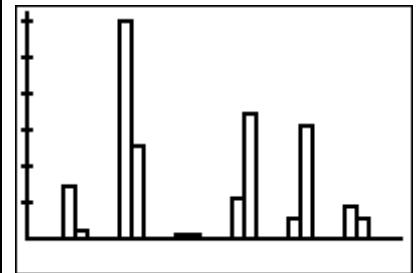
DataList2: Set to WLTH2: Press **2nd** **list** . Select **WLTH2** and press **enter** .

Ignore **DataList3**.

Select **Vert**, press **enter** . Select **2**, press **enter** .

Hit **graph** to display the bar graph.

```
Plot1 Off
Type: [Bar] [Pie] [Line] [Dot] [None]
      [Box] [Grid] [HLine] [VLine]
CategList: REGIO
DataList1: POP
DataList2: WLTH2
DataList3: L4
Vert Hor 1 3
```



Creating a Scatterplot

Turn any previous plots off. Select Plot 2.

Plot 2: Select ON, press **enter**

Type: Scatterplot

XList: Set to POP: Press **2nd** **list** . Select **POP** and press **enter** .

YList: Set to WLTH2: Press **2nd** **list** . Select **WLTH2** and press **enter** .

Mark: (your choice).

Press **zoom** and select ZoomStat. Press **graph** .

Graph the line $y = x$ over the scatterplot: **y=** **x** **graph**

```
Plot2 Off
Type: [Scatter] [Bar] [Pie] [Line] [Dot] [None]
      [Box] [Grid] [HLine] [VLine]
Xlist: POP
Ylist: WLTH2
Mark: [Square] + .
```

