TI-84 Plus CE

CALCULATOR BOOT CAMP

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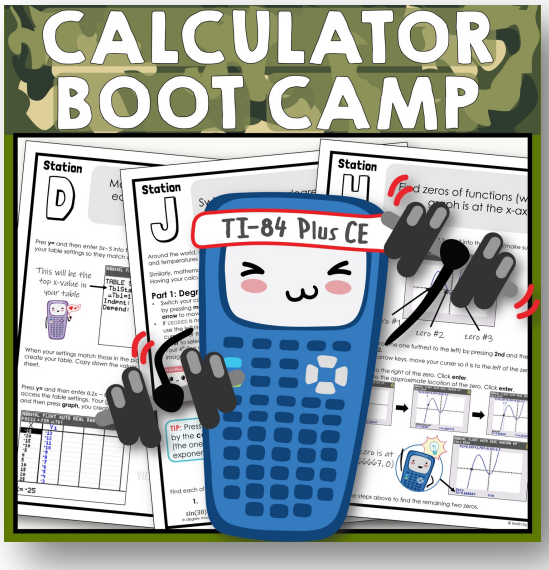

GET THE FULL ACTIVITY WITH 12 STATIONS!

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MATH BY THE MOUNTAIN

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-Audrey

Teacher Instructions

Goal:

The goal of this activity is to introduce your students to some of the most common features of their TI-84 calculator. The images and steps shown in this activity most closely match the TI-84 Plus CE model, but considerations and tips have been given for students with older models.

Before Class:

1. Print 1 copy of each of the lettered Graphing Calculator Boot Camp stations. Hang up the stations in order around your classroom.

   TIP: Laminate the lettered stations or put them into plastic page protectors so they can be used again!

2. Print enough copies of the student work-recording sheet so there is enough to have 1 per student.

During Class:

1. Introduce to your students the reason behind why they will be doing this Graphing Calculator Boot Camp activity.

2. Have students work in groups of 2-4. Remind them that they will need to record answers from their calculator at every station. As they finish a station, they are free to go to the next one (or you can set a timer for each station).

3. Circulate around the room and provide assistance as needed.

Name: _____ Date: _____ Period: _____

Graphing Calculator Boot Camp

Directions: Each station will introduce you to a new feature of your graphing calculator. Carefully follow each station's instructions and record your answers below.

<table>
<tr><th>Station</th><th colspan="4">Answers</th></tr>
<tr><td>A</td><td>1. _____</td><td>2. _____</td><td>3. _____</td><td>4. _____</td></tr>
<tr><td>B</td><td colspan="2">1. What window settings did you use to show only Quadrant 3?
WINDOW
Xmin= _____
Xmax= _____
Xscl=1
Ymin= _____
Ymax= _____
Yscl=1
Xres=1</td><td colspan="2">2. What series of button presses will always reset the graphing window to the standard window?
  </td></tr>
<tr><td>C</td><td colspan="4">What was the confirmation message your calculator gave you?</td></tr>
<tr><td>D</td><td colspan="2">Part 1: Complete the table of values your calculator gave you.
<table><tr><th>X</th><th>Y_1</th><th></th><th></th><th></th><th></th></tr><tr><td>-5</td><td></td><td></td><td></td><td></td><td rowspan="12"></td></tr><tr><td>-4</td><td></td><td></td><td></td><td></td></tr><tr><td>-3</td><td></td><td></td><td></td><td></td></tr><tr><td>-2</td><td></td><td></td><td></td><td></td></tr><tr><td>-1</td><td></td><td></td><td></td><td></td></tr><tr><td>0</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td></tr></table></td><td colspan="2">Part 2: What settings did you use to match the table in the given picture?
TABLE SETUP
TblStart= _____
ΔTbl=_____
Indpnt: Auto Ask
Depend: Auto Ask</td></tr>
</table>

Station A

Convert decimals into fractions.

Directions: Type each value into your calculator, and then press **math**, **enter**, **enter** to convert it into a decimal.

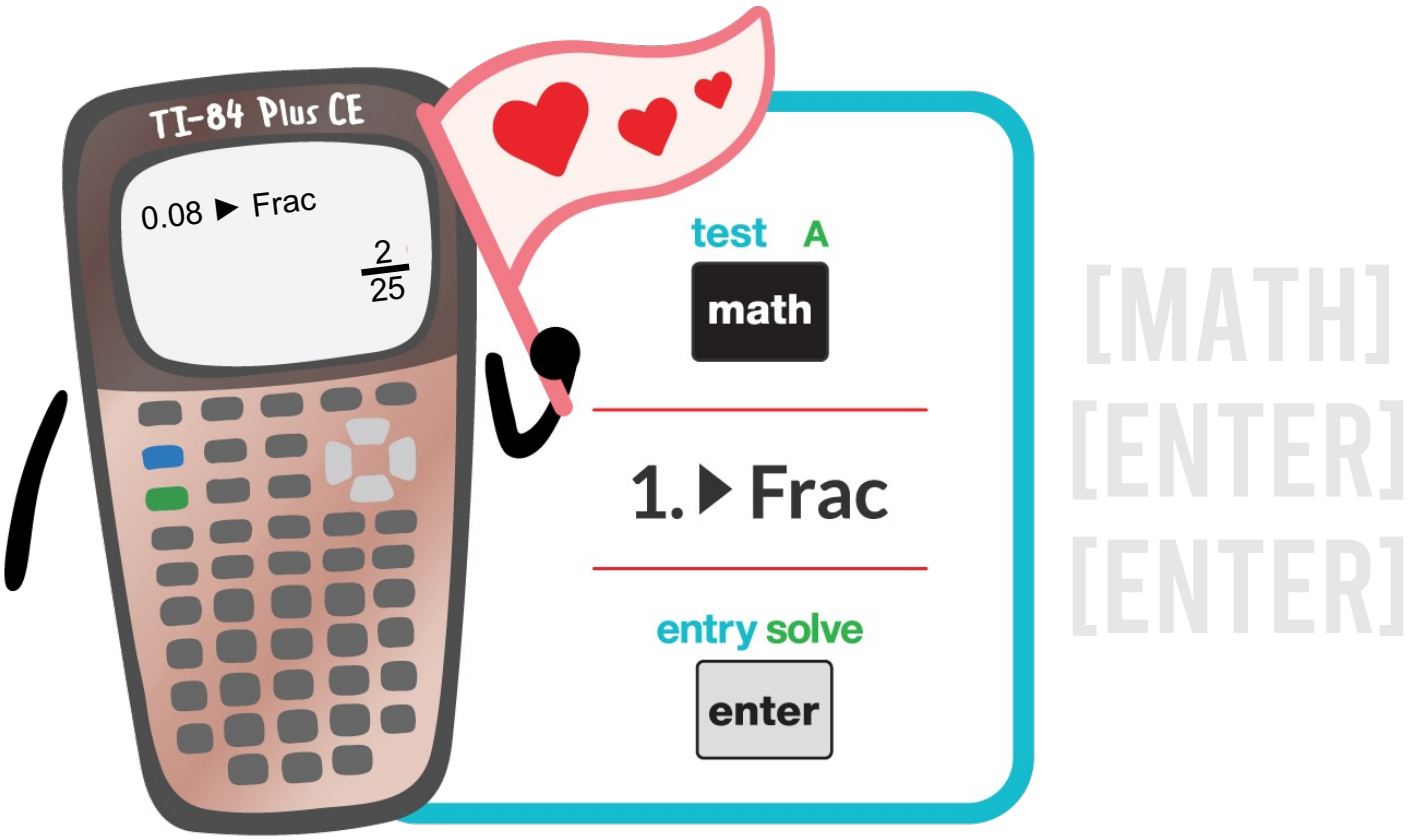
1. 0.056

2. 1.58

3. 0.46

4. 0.375

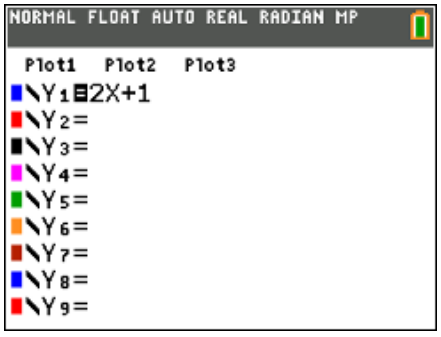
Note: The first time you press **enter** will select the ▶**Frac** option, and the second time you press **enter** will convert your decimal into a fraction.

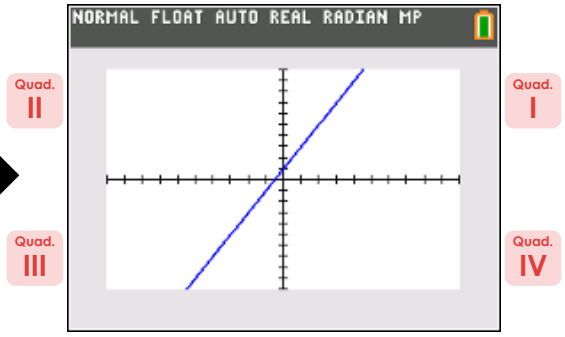


Station B

Graph equations & change graphing window settings.

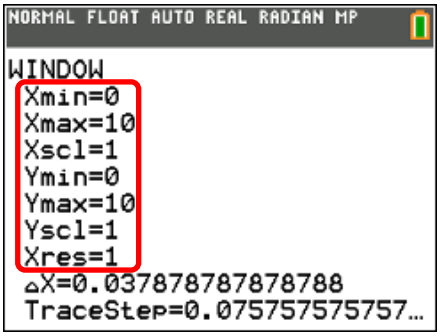
Part 1: Pres **y=** and then enter $2x + 1$ into the Y_1 line. When you're done, press **graph**.

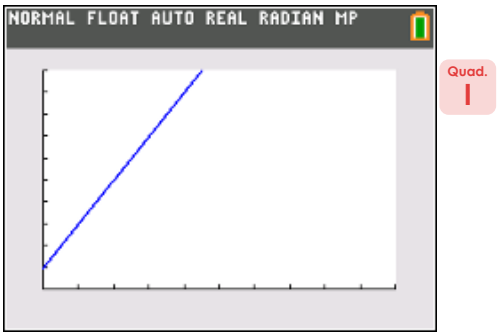


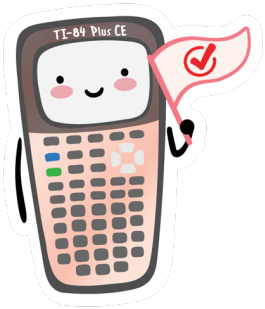


NOTE: If your line or graph's axes don't look like the picture above, press **zoom** and then **6**.

Part 2: Change the window settings so you only see Quadrant I (the top right). Press **window**, and then alter the settings as shown below. When you're done, press **graph** again.

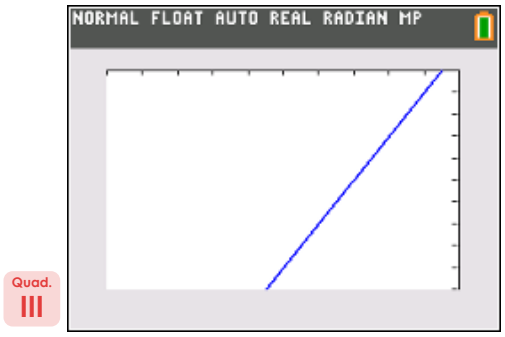






You Try!

1. Change the window settings so you can only see Quadrant III (the bottom left). Press **window**, and then play around with altering the settings. When you're done, press **graph** again. Your graph should look like the picture below.



2. Sometimes the window settings get messed up and it's nice to have an easy "undo" option that resets the graphing window to the standard view. That's what "Zoom 6" is for.

   Reset your calculator back to the standard window settings by pressing **zoom** then **6**.

[ZOOM][6]

Station C

Reset your calculator's settings.

Whether its going into a backpack without the calculator lid on, or tiny calculator gremlins sneaking into your room at night to wreck havoc, sometimes settings get changed that were unintended.

Directions: Practice resetting your calculator.

- Press **2nd** and then press **+** to enter the memory menu.
- Press option **7**, and then press option **1**.
- Confirm your choice by pressing option **2**.

[2ND][+][7][1][2]

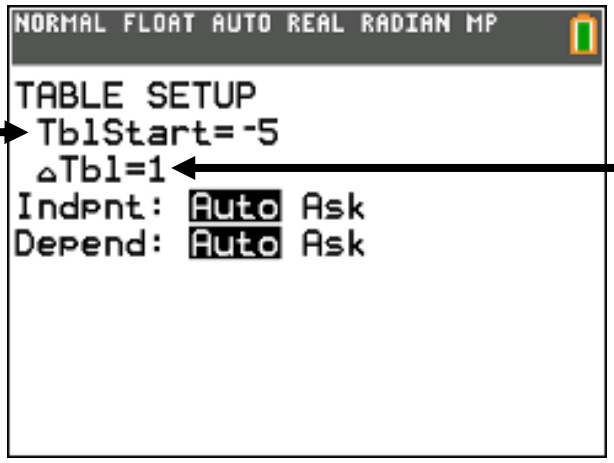
Station D

Make a table of values from an equation and adjust the table settings.

Part 1:

Pres **y=** and then enter $3x-5$ into the Y_1 line. Next, press **2nd** and then press **window**. Adjust your table settings so they match what is shown in the picture below.

This will be the top x-value in your table

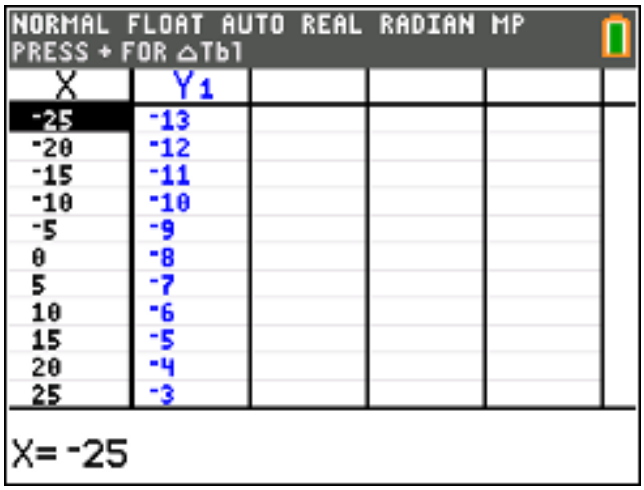


The rest of the x-values will count up by this number

When your settings match those in the picture above, press **2nd** and then press **graph** to create your table. Copy down the values your calculator gave you on your work recording sheet.

Part 2:

Press **y=** and then enter $0.2x-8$ into the Y_1 line. Next, press **2nd** and then press **window** to access the table settings. Your goal is to adjust these settings so that when you press **2nd** and then press **graph,** you create a table that looks exactly like the one shown below.



CHANGE TABLE SETTINGS:
[2ND][WINDOW]

VIEW TABLE:
[2ND][GRAPH]

Name: _____ Date: _____ Period: _____

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<table>
<tr><th>Station</th><th colspan="4">Answers</th></tr>
<tr><td>A</td><td>1. $\frac{7}{125}$</td><td>2. $\frac{79}{50}$</td><td>3. $\frac{23}{50}$</td><td>4. $\frac{3}{8}$</td></tr>
<tr><td>B</td><td colspan="2">1. What window settings did you use to show only Quadrant 3?
WINDOW
Xmin= −10
Xmax= 0
Xscl=1
Ymin= −10
Ymax= 0
Yscl=1
Xres=1</td><td colspan="2">2. What series of button presses will always reset the graphing window to the standard window?
Press zoom and then press 6.
  </td></tr>
<tr><td>C</td><td colspan="4">What was the confirmation message your calculator gave you?
Done</td></tr>
<tr><td>D</td><td colspan="2">Part 1: Complete the table of values your calculator gave you.
<table>
<tr><th>X</th><th>Y_1</th><th></th><th></th><th></th><th></th></tr>
<tr><td>−5</td><td>-20</td><td></td><td></td><td></td><td></td></tr>
<tr><td>−4</td><td>-17</td><td></td><td></td><td></td><td></td></tr>
<tr><td>−3</td><td>-14</td><td></td><td></td><td></td><td></td></tr>
<tr><td>−2</td><td>-11</td><td></td><td></td><td></td><td></td></tr>
<tr><td>−1</td><td>-8</td><td></td><td></td><td></td><td></td></tr>
<tr><td>0</td><td>-5</td><td></td><td></td><td></td><td></td></tr>
<tr><td>1</td><td>-2</td><td></td><td></td><td></td><td></td></tr>
<tr><td>2</td><td>1</td><td></td><td></td><td></td><td></td></tr>
<tr><td>3</td><td>4</td><td></td><td></td><td></td><td></td></tr>
<tr><td>4</td><td>7</td><td></td><td></td><td></td><td></td></tr>
<tr><td>5</td><td>10</td><td></td><td></td><td></td><td></td></tr>
</table></td><td colspan="2">Part 2: What settings did you use to match the table in the given picture?
TABLE SETUP
TblStart= −25
ΔTbl= 5
Indpnt: Auto Ask
Depend: Auto Ask</td></tr>
</table>

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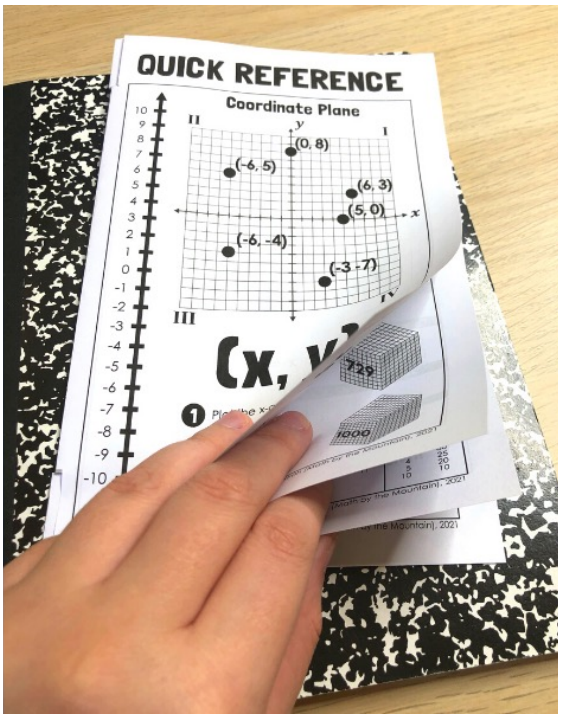

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