

TI Technology Guide for West Nile killing more people

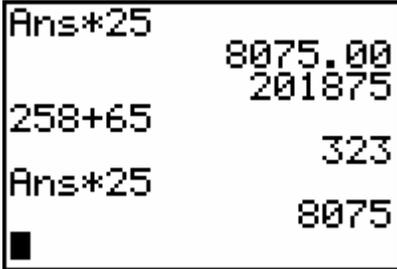
TI-83 Plus and TI-84 Plus Families

Home screen calculations

On the home screen of the graphing calculator, calculate the percent change in the number of West Nile cases in the United States from 2002-2003

1. When you turn on your calculator you may have something on the screen as shown at the right.

To clear this from the screen, press **CLEAR** and you should now see a blank screen with a flashing cursor. The home screen is where you enter problems and see results.



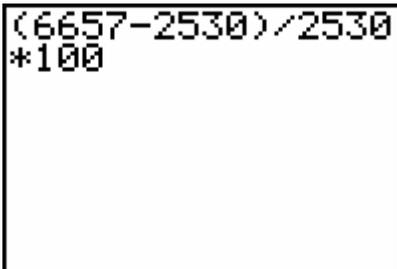
```
Ans*25      8075.00
              201875
258+65
              323
Ans*25      8075
█
```

2. To remove the previous work from the home screen and have a blank screen press **CLEAR** each time you begin a new calculation. Press **2nd** **QUIT** to leave a menu and return to the home screen.

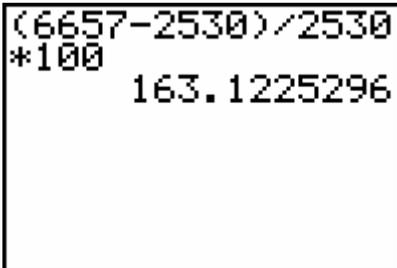


```
█
```

3. To calculate the percent change of West Nile cases from 2002-2003 on the home screen press **(** **6** **6** **5** **7** **-** **2** **5** **3** **0** **)** **/** **2** **5** **3** **0** ***** **1** **0** **0** **ENTER**.



```
(6657-2530)/2530
*100
```



```
(6657-2530)/2530
*100
163.1225296
```

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4. The mode settings determine how entries are interpreted and how answers are displayed. To change the mode setting for decimals so the answer will display 0 decimal places. Press

MODE \blacktriangledown \blacktriangleright **ENTER** **2nd** **QUIT**

```
NORMAL SCI ENG
FLOAT 0 1 2 3 4 5 6 7 8 9
RADIAN DEGREE
FUNC PAR POL SEQ
CONNECTED DOT
SEQUENTIAL SIMUL
REAL a+bi re^θi
FULL HORIZ G-T
SET CLOCK 02/17/01 9:39AM
```

```
NORMAL SCI ENG
FLOAT 0 1 2 3 4 5 6 7 8 9
RADIAN DEGREE
FUNC PAR POL SEQ
CONNECTED DOT
SEQUENTIAL SIMUL
REAL a+bi re^θi
FULL HORIZ G-T
SET CLOCK 02/17/01 9:39AM
```

5. To recall the last expression press **2nd** **ENTRY**

```
(6657-2530)/2530
*100
163.1225296
(6657-2530)/2530
*100
```

6. Press **ENTER** to calculate the value now that the mode has been changed. **Remember** that the number of decimal places has been changed to 0 and the calculator will remain at that setting until changed. You may have to change the decimal place mode setting to reflect how you want the numbers in the problem to be displayed.

```
(6657-2530)/2530
*100
163.1225296
(6657-2530)/2530
*100
163
```

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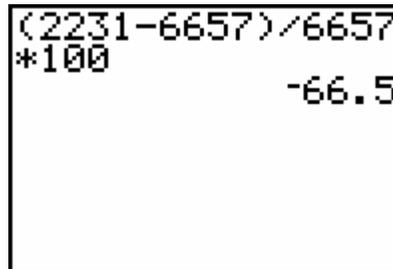
By what percent did the number of West Nile cases decrease from 2003 to 2004.

7. Change the decimal mode setting to 1.



A TI-83 Plus calculator screen showing the MODE menu. The options are: NORMAL (highlighted), SCI, ENG, FLOAT 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, RADIAN, DEGREE, FUNC, PAR, POL, SEQ, CONNECTED, DOT, SEQUENTIAL, SIMUL, REAL a+bi, re^θi, FULL, HORIZ, G-T, and SETCLOCK 11/23/04 3:58PM.

8. Calculate the percentage decrease.



A TI-83 Plus calculator screen showing the calculation $(2231 - 6657) / 6657 * 100$ resulting in -66.5 .

9. The remaining questions in the activity can be answered using the same procedure as described in steps 1-8.