

TI Technology Guide for When the snow is as high as an elephant

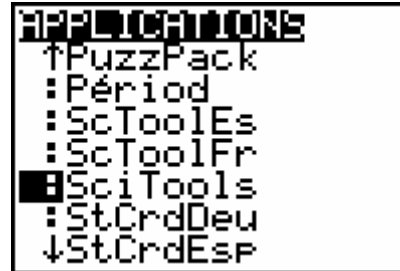
TI-83 Plus and TI-84 Plus Families

Unit conversion using the Science Tool App

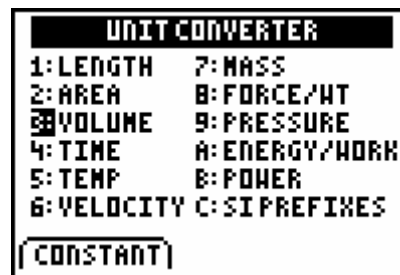
Starting the Science Tools Application

Start the application by pressing **[APPS]** and select **:SciTools**.

Press **[ENTER]** or any key to bypass Home Page



Select **2:UNIT CONVERTER** and **3:VOLUME**



To convert 1440 cubic inches to cubic feet, enter 1440 and move the cursor to **in³** and press **[ENTER]**.



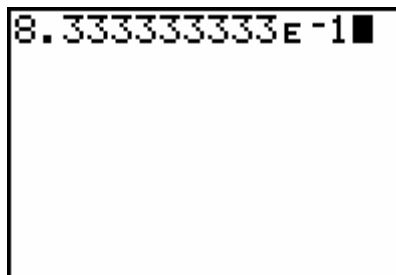
Move the cursor to **ft³** and press **[ENTER]**.



TI Technology Guide for When the snow is as high as an elephant

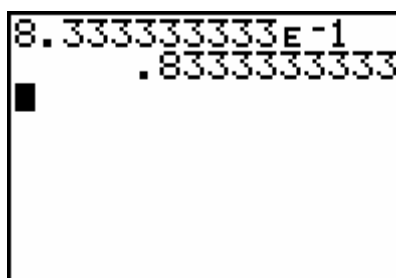
TI-83 Plus and TI-84 Plus Families

To copy this value to the home screen press
EXPT ($\boxed{\text{ZOOM}}$), $\boxed{2\text{nd}}$ $\boxed{[\text{QUIT}]}$, $\boxed{2\text{nd}}$ $\boxed{[\text{QUIT}]}$, and EXIT ($\boxed{Y=}$).



8.333333333E-1

Press $\boxed{\text{ENTER}}$ to express the value in decimal form.



8.333333333E-1
.8333333333

Within the application you may press $\boxed{2\text{nd}}$ $\boxed{[\text{QUIT}]}$, possibly more than once, at any time to return to the SELECT A TOOL screen. Then press EXIT ($\boxed{Y=}$) to return to the home screen.

Entering data into the list editor.

The values for the class data will be different from the values shown. Press $\boxed{\text{STAT}}$ $\boxed{1}$ to select 1:Edit from the STAT EDIT menu. The stat list editor is displayed and the default lists L1 through L6 are restored. If values are stored in the lists press $\boxed{\uparrow}$ to move the cursor onto L1, and then press $\boxed{\text{CLEAR}}$ $\boxed{\text{ENTER}}$. Repeat this process for L2 through L4 to clear all entries in these lists.

L1	L2	L3	1
████████	-----	-----	
L1(1) =			

Press $\boxed{\downarrow}$ to move the cursor back to the first row in L1. Students should enter their snow depth in feet in L1, area of base in square feet in L2, and weight of snow in pounds in L3.

L1	L2	L3	3
.66667	1	███	
.41667	1.0833	.75	
1.1667	.83333	.5	
.5	1	.5	
.25	1	.25	
.16667	.5625	.25	
1.6667	1	.75	
L3(1) = .5			

TI Technology Guide for When the snow is as high as an elephant

TI-83 Plus and TI-84 Plus Families

Move the cursor to highlight L4 and enter the formula shown at the right. Press **ENTER** to calculate the pounds per cubic foot.

L2	L3	L4	4
1	.5		
1.0833	.75		
.83333	.5		
1	.5		
1	.25		
.5625	.25		
1	.75		
L4 = L3 / (L1 * L2)			

L2	L3	L4	4
1	.5	.75	
1.0833	.75	1.6615	
.83333	.5	.51429	
1	.5	1	
1	.25	1	
.5625	.25	2.6667	
1	.75	.45	
L4() = .75			

Calculating the Mean and Median values

Press **STAT** **▶** to CALC and press **1** to select 1-Var Stats.

EDIT	TESTS
1: 1-Var Stats	
2: 2-Var Stats	
3: Med-Med	
4: LinReg(ax+b)	
5: QuadReg	
6: CubicReg	
7: QuartReg	

Press **2nd**[L4] **ENTER**.

1-Var Stats L4

TI Technology Guide for When the snow is as high as an elephant

TI-83 Plus and TI-84 Plus Families

The mean value is the first value shown on this screen. Use the \blacktriangledown to find the median value.

```
1-Var Stats
x̄=1.148927263
Σx=8.042490842
Σx²=12.901311
Sx=.7811395493
σx=.7231946955
↓n=7
```

```
1-Var Stats
↑n=7
minX=.45
Q1=.5142857143
Med=1
Q3=1.661538462
maxX=2.6666667
■
```

Another way to find the mean and median values.

Press 2^{nd} [QUIT] to return to the home screen.

To determine the mean value for L4 press 2^{nd} [LIST] \blacktriangledown to MATH.

```
NAMES OPS [MATH]
1:min(
2:max(
3:mean(
4:median(
5:sum(
6:prod(
7↓stdDev(
```

Press 3 to select mean from this menu. Press 2^{nd} [L4] \square [ENTER] to calculate the mean value for L4.

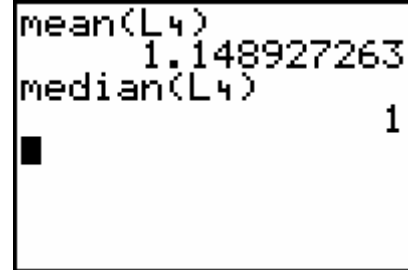
```
mean(L4)
1.148927263
■
```

USA TODAY Math TODAY Challenge: When the snow is as high as an elephant

TI Technology Guide for When the snow is as high as an elephant

TI-83 Plus and TI-84 Plus Families

Repeat the step above to calculate the median value for the data in L4.



```
mean(L4)
1.148927263
median(L4)
1
```

The image shows a TI-83 Plus calculator screen with a black border. The screen displays the following text: 'mean(L4)' on the first line, '1.148927263' on the second line, 'median(L4)' on the third line, and '1' on the fourth line. A small black square cursor is visible on the left side of the screen, positioned between the 'median(L4)' and '1' lines.