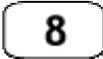
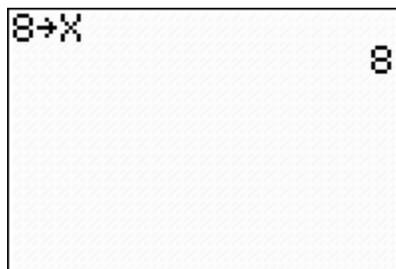


Lesson #13

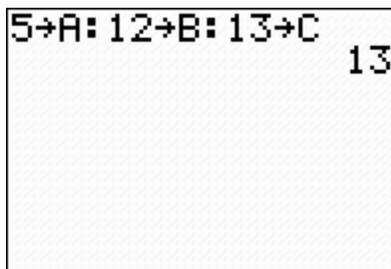
Storing a Value

An algebraic expression is an expression containing numbers and variables. The TI-84 can be very useful for evaluating algebraic expressions. The graphing calculator has a storing function that allows values to be stored into variables. Once all values are stored in the respective variables, an algebraic expression can be entered and evaluated.

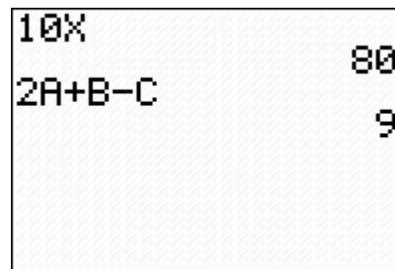
To store 8 into the variable x , press   , then press . If the value is stored correctly it will appear on the next line to the right side of the screen. To enter multiple values place a ':' in between each set of stored values. For example, to store 5 into variable A, 12 into variable B, and 13 into variable C, press   to separate each entry. See the diagram below.



Storing a value into a single variable.



Storing a value into multiple variables.



Evaluating expressions using the variables and the values stored into them.

Set 1 – Use the store function to evaluate the following expressions for $x = 3$, $y = 2$, and $z = -7$. Do not round.

LP#1 $3(x+2z)$	$x + \frac{14}{z}$	$\frac{4x+3y-6z}{4y+2}$	$\frac{4x+y^2}{3x+2y}$
LP#2 $2z^2+5y$	$\frac{2x}{y} + \frac{8}{x}$	$\frac{x+5y+2z}{7x+1}$	$\frac{z^2+5}{9x}$

R#1 $2(3x + z)$	$\frac{5x}{2y} + \frac{2}{3x}$	$\frac{3x + y}{5y}$	$y^3 + x^3 - z^3$
R#2 $3x^2 + 2y^3$	$\frac{x}{y} + \frac{z}{y}$	$3x + 5y + 7z$	$x(x + 4y) + z$
R#3 $z^2 + z^3$	$z(x + y + z)$	$\frac{3z}{10x + 7y}$	$\frac{x + y}{z - 3}$

Please note:

- Anytime a new value is stored into a variable the old entry is removed.
- The calculator's default is set to store 0 in all variables.