

In this Application for Unit 1 you will discover the versatility of the **Disp** statement and develop your own program. Skill Builders for Unit 1 should be completed prior to this activity.

Objectives:

- Embellish **Disp** statements to produce meaningful information using literal strings
- Write your own formula program

The **Disp** statement can display more than one item at a time.

Study the screen at the right in which the hypotenuse program has been modified. The program 'echoes' the arguments **a** and **b** with appropriate labels and then displays the calculated hypotenuse length appropriately labeled, too.

The items in quotes are called 'literal strings'. A string is a collection of characters 'strung' together.

When you edit your program remember to 'Check Syntax & Store' the program by selecting **menu> Check Syntax & Store> Check Syntax & Store** (or use the shortcut **ctrl-B** on the handheld) before running it.

Remember to use the comma as a separator between the items to be displayed. There should be a comma in between the text in quotes and the values **a**, **b** and the expression.

Write a program that takes one or more arguments, and then displays the result of a calculation based on the argument(s).

The calculation can be any formula. Here are a few suggestions:

The program should clearly label the output.

Area of a geometric shape

Square: side^2

Triangle: $\frac{1}{2} * b * h$

Circle: $\pi * r^2$

Trapezoid: $\frac{1}{2} * (b_1 + b_2) * h$

Volume of a solid:

Cube: side^3

Square Pyramid: $\frac{1}{3} * \text{side}^2 * \text{height}$

Sphere: $\frac{4}{3} * \pi * r^3$

Simple interest: $A = P + P * R * T$

Compound interest: $A = P * (1 + r/n)^{n*t}$


