Seatwork on Flowcharting

Draw the flowchart and write pseudocode for the given problems.

1. Draw a flowchart that allows the user to input the base and height of a right triangle. Compute and display the area and perimeter of the triangle.

2. Draw a flowchart that will convert meter to inches and feet.

3. Draw a flowchart that will accept for the length and width of a rectangle. If the inputted length is greater than the width, compute and print the area; else compute and print the perimeter of the rectangle.

* **Base and Height**
  + **Prepare five (5) variables for base, height, area, perimeter, and side**
  + **Input base and height of the triangle**
  + **Perform the following formula:**A = ½ (B \* H)  
    Z = B^2 + H^2  
    P = B + H + Z
  + **Store the result in the variables**
  + **Display Variables A and P**
* **Meter to Inches and Feet**
  + **Prepare three (3) variables for Meter, Inches, and Feet**
  + **Input Meter**
  + **Perform the following formula:**I = M \* 39.37  
    F= M \* 3.281
  + **Store the result in the variables**
  + **Display Variables I and F**
* **If and Else Rectangle**
  + **Prepare four (4) variables for length, width, area, and perimeter**
  + **Input length and width**
  + **Test/compare the inputted length and width**
  + **If length > width, compute and display area**
  + **Else, compute and display the perimeter**

1. **Base and Height**

START

? A, P

END

A = ½ (B \* H)  
Z = B^2 + H^2  
P = B + H + Z

B. H

B, H, A, P, Z

**2.Meter to Inches and Feet**

START

M, I, F

M

I = M \* 39.37

F= M \* 3.281

? I, F

END

**3. If and Else Rectangle**

End

? p

? a

No

p = 2 (l + w)

Yes

a = (l)(w)

l >w

l, w

l, w, a, p

START