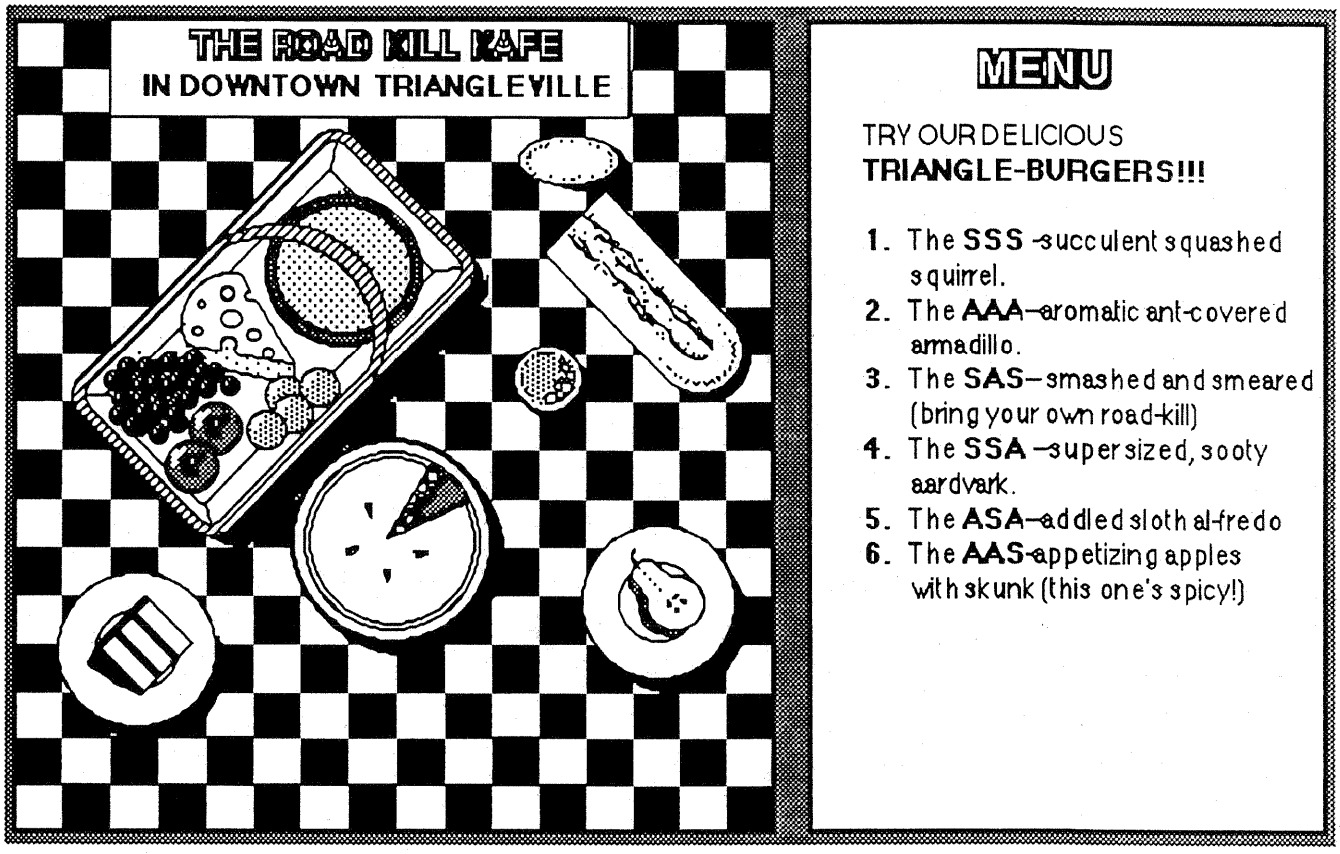
TRIANGLES MADE TO ORDER



You have applied for a job as a short-order cook at the Road Kill Kafe in fabulous downtown Triangleville. As you can see, the menu is simple but satisfying. It consists of 6 different triangle-burgers--each with its own unique geometric "flavor."

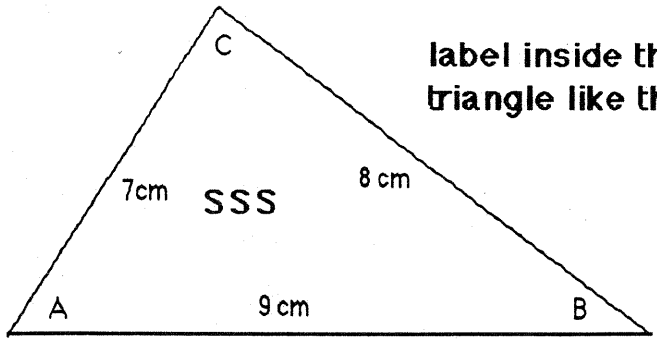
To get the job, you must demonstrate that you can make all six triangle burgers using the cook's precise specifications.

Make each of the 6 Road Kill Kafe triangle-burgers by reading the specifications, drawing and labeling the triangle on paper, and then cutting it out.

Each triangle you make must contain all the information given **exactly as specified**. If a particular length or and angle is not given, then you are free to make it as big or as little as you want--provided you can still come with the triangle-burger. You' ll understand what this means once you start making them.

Be sure to put your name on each of the triangles that you cut out.

One last note: make sure you put all your labels, lengths, and angle measurements inside the triangle so that they still show up as part of the triangle once you cut it out.



Here are the triangles you have to make:

1. The **SSS**. Make ΔABC with: AB = 9 cm.
   BC = 8 cm
   AC = 7cm.
   (Hint: Draw segment AB first. Then use your compass set at 8 cm. to locate segment BC and your compass set at 7 cm. to locate segment AC.)

2. The **AAA**. Make ΔDEF with: m ∠ D = 80
   m ∠ E = 30
   m ∠ F = 70

3. The **SAS**. Make ΔGHI with: GH = 8 cm
   m ∠ G = 50
   GI = 6 cm

4. The **SSA**. Make ΔJKL with: JK = 9 cm
   JL = 6 cm
   m ∠ K = 40
   (Hint: Draw segment JK first. Use your compass set at 6 cm to locate segment JL.)

5. The **ASA**. Make Δ MNO with: MN = 8 cm.
   m ∠M = 60
   m ∠N = 40

6. The **AAS**. Make ΔPQR with: PQ = 8 cm.
   m ∠ P = 40
   m ∠R = 60
   (Hint: You're the cook. You figure it out!!!!)