

# Billy Bob's Fast Food Factory

## Activity Instructions

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You have applied for a job as a short order cook at Billy Bob's Fast Food Factory in touristy Triangleville. In order to get the job, you must demonstrate that you can prepare the foods for which the Fast Food Factory is famous. Their menu consists of seven specially shaped triangular sandwiches.



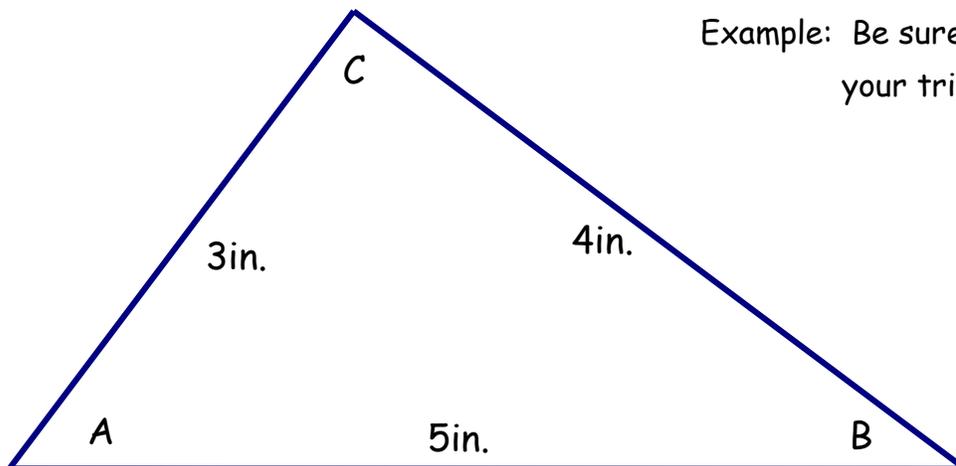
### Billy Bob's Fast Food Factory Menu

- #1 SSS Spicy Summer Sausage
- #2 AAA Awesome Authentic Anchovy
- #3 SAS Succulent Aromatic Swine
- #4 SSA Super Sized Antelope
- #5 ASA Appetizing Sesame Avocado
- #6 AAS Aunt Annie's Steak
- #7 HL Horrible Liverwurst

To successfully make each of the triangular sandwiches you need to:

1. Carefully read the specifications for each sandwich
2. Draw the sandwich **accurately** (using a ruler and a protractor)
3. Label the **inside** of the sandwich with your measurements
4. Make sure that your sandwich meets all of the given specifications
5. Cut out the triangular sandwich
6. Put your name on the back of the sandwich.
7. Label the front with the type of sandwich (SSS, or SSA, etc.)
8. Post your sandwich on the appropriate "wall of sandwiches"

Each triangular sandwich must contain all of the given information. For any specifications not given, you may decide the length of that side or the size of that angle. Once you have completed each sandwich, make sure you label each vertex with the specified letter and each side with the correct length. You will also need to label each triangular sandwich with its menu name. Place all labels in the **interior** of the triangle.



Example: Be sure to label inside your triangle!

Here are the seven specially shaped triangular sandwiches that you must prepare by following the specifications:

- Yellow -- #1 Spicy Summer Sausage (**SSS**)  
 Make  $\triangle ABC$  with:  $AB = 6$  in.  $BC = 5$  in.  $AC = 4$  in.  
 (HINT: Draw segment AB first.)
- Red -- #2 Awesome Authentic Anchovy (**AAA**)  
 Make  $\triangle DEF$  with:  $m\angle D = 60$ ,  $m\angle E = 80$ ,  $m\angle F = 40$
- Green -- #3 Succulent Aromatic Swine (**SAS**)  
 Make  $\triangle GHI$  with:  $GH = 4$  in.,  $m\angle G = 55$ ,  $GI = 3$  in.
- Pink -- #4 Super-Sized Antelope (**SSA**)  
 Make  $\triangle JKL$  with:  $JK = 5$  in,  $JL = 3.5$  in,  $m\angle K = 40$   
 (HINT: Draw angle K first. Then draw segment JK, followed by segment JL.)
- Blue -- #5 Appetizing Sesame Avocado (**ASA**)  
 Make  $\triangle MNO$  with:  $m\angle M = 60$ ,  $MN = 4$  in.  $m\angle N = 45$
- Orange -- #6 Aunt Annie's Steak (**AAS**)  
 Make  $\triangle PQR$  with:  $m\angle P = 40$ ,  $m\angle R = 60$ ,  $PQ = 4$  in
- Purple -- #7 Horrible Liverwurst (**HL**)  
 Make  $\triangle STU$  with:  $m\angle S = 90$ ,  $ST = 4$ ,  $TU = 6$