INT109-3.1 Lab: Answer the following lab questions. Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Refer to drawing number N040-1034 from the text book instructor package. Answer the following questions.

1.) How many bends does this part have?  
          
2.) What is the basic thickness of the metal for this part?  
          
3.) What bend deduction (setback) was used in calculating the flat pattern?  
          
4.) What is the bend radius for this part?  
          
5.) In the formed view, is the 10.574″ dimension to the inside or outside of the bends?

6.) What size are the slotted holes of this part?  
          
7.) Even though the finished part is 5.5″ tall, what is the developed length of the flat pattern in that direction?  
          
8.) How wide are the clearance notches on each side of the metal that is folded along the top, as shown in the formed view?  
          
9.) What is the radius for breaking sharp edges?  
          
10.) What amount of tolerance is permitted for the dimensions shown in the formed view?

11.) Analyze the formed object in the pictorial view. What term can be applied to the features that contain the holes, including two dimensioned as .750 BOTH ENDS and one dimensioned as a .750 wide strip along the top edge?  
          
12.) What is the overall size of the blank required for this part?

 13.) Calculate the offset for hole C with respect to its alignment with holes A and B.

14.) What part number will this part be used on?

15.) How many holes on this part are square holes?

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