NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

RESTRICTION MAP
Use the restriction map shown to answer the following questions:

How large is this plasmid? \_\_\_\_\_\_\_\_\_\_\_\_\_ bp

How many fragments would be produced if this plasmid was cut with the restriction enzyme EcoR1? \_\_\_\_\_\_\_\_

How many fragments would be produced if this plasmid was cut with the restriction enzyme BamH1? \_\_\_\_\_\_\_\_

How large would each of these be?
 \_\_\_\_\_\_\_\_\_\_\_\_ bp \_\_\_\_\_\_\_\_\_\_ bp

How many fragments would be produced if this plasmid was cut with both
 EcoR1 AND BamH1? \_\_\_\_\_\_\_

Draw the patterns you would expect to see if the following digests were analyzed using DNA gel electrophoresis.



