

***Isomorphic*¹ Problem Situations**

1. Find a problem situation which is *isomorphic* to the Paper-folding Problem.
(That is, find another real world problem situation which has the same mathematical structure (i.e., is modeled by an exponential function) as the Paper-folding Problem and can be solved using the same mathematical concepts.)
 - a) Solve your problem showing your work and explaining your reasoning.
 - b) Describe the similarities and differences between the Paper-folding activity and your real world example.
 - c) Summarize how your problem is isomorphic to the Paper folding activity by discussing the mathematical structure and concepts in both problems.
2. Creating *isomorphic problem situations* can be a powerful tool for both teachers and students.
 - a) Explain why a teacher might want to create an isomorphic problem situation.
 - b) Explain why you would ask a student to create an isomorphic problem situation.

¹ **isomorphic**

-mathematics- Two mathematical objects are isomorphic if they have the same structure, i.e. if there is an [isomorphism](#) between them. For every component of one there is a corresponding component of the other.

-biology- adj : having similar appearance but genetically different