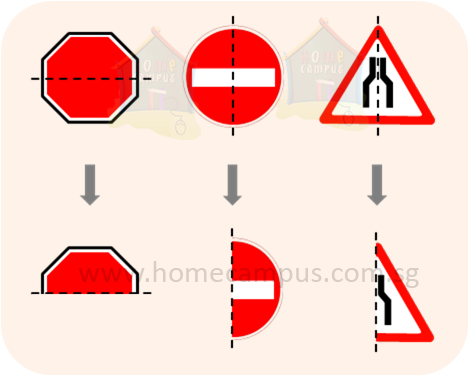
Symmetric Figures

http://my.homecampus.com.sg/Learn/Primary-Grade-4/Geometry/Symmetric-Figures-Shapes-and-Patterns

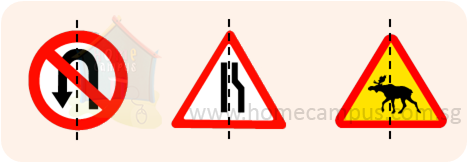
### *What is a symmetric figure?*

If a figure can be folded or divided into half so that **the two halves match exactly** then such a figure is called a symmetric figure. The figures below are symmetric.



The dotted line in each of the symmetric figures above that divides the figure into two equal halves is called the **line of symmetry**.

In the figures below, there are **no lines of symmetry** that divide each of the figures into two equal halves. Therefore, these figures are **not symmetric**.



**Line of Symmetry = Line of Reflection**

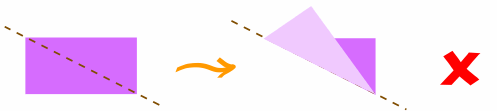
Folding Test

You can find if a shape has a Line of reflection (is symmetric)

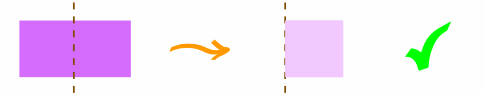
by**folding it**.

When the folded part sits perfectly on top (all edges matching), then the fold line is a Line of Reflection

Here I have folded a rectangle one way, and **it didn't work**.

  
So this is **not** a Line of Reflection

But when I try it this way, it **does work** (the folded part sits perfectly on top, all edges matching):

  
So this **is** a Line of Reflection