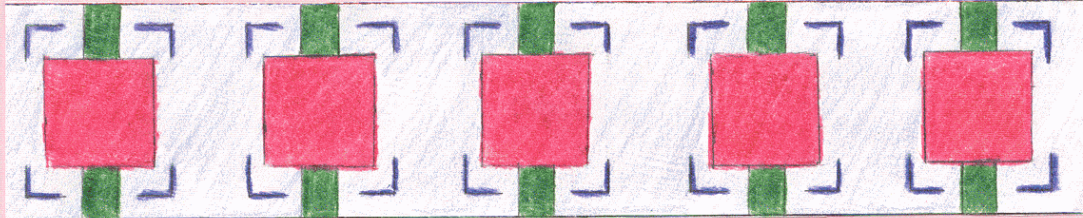
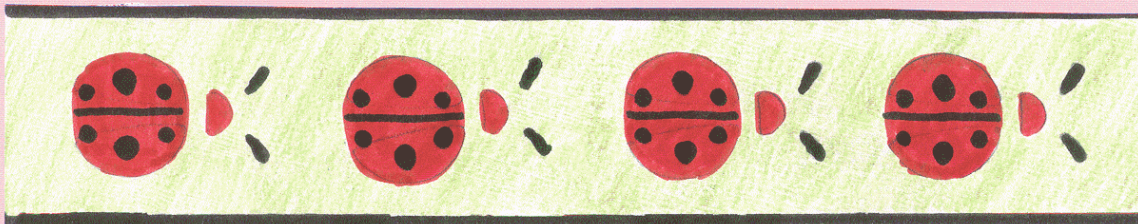


# Border Projects -- 2001

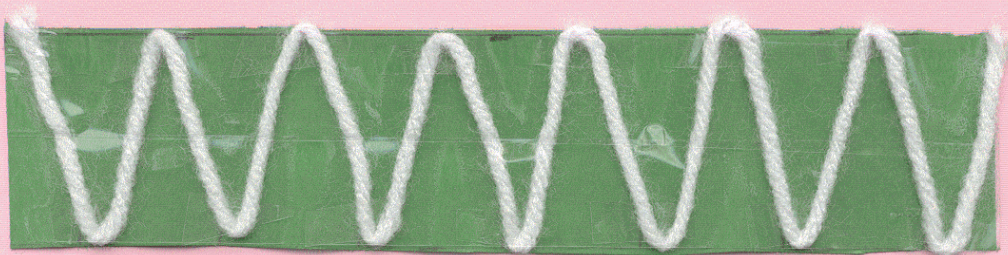
## SEVEN TYPES OF BORDER SYMMETRY



$mm$  -- crossline symmetry; centerline symmetry



$1m$  -- no crossline symmetry; centerline symmetry



$mg$  -- crossline symmetry; glide reflectional symmetry

by Alicia Divelbiss



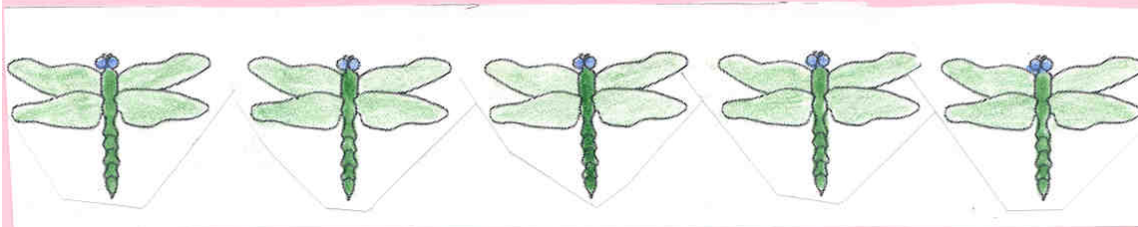
1g -- no crossline symmetry; glide reflectional symmetry



12 -- no crossline symmetry; half-turn symmetry

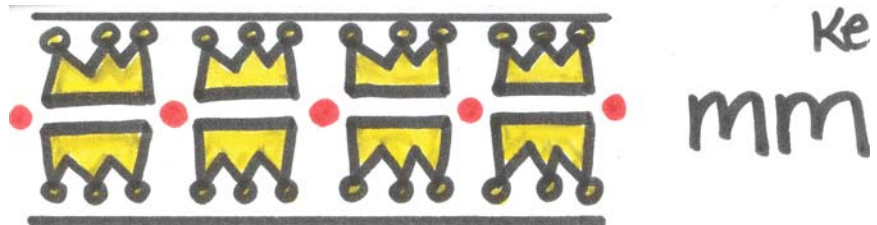


11 -- no crossline symmetry; no additional symmetry

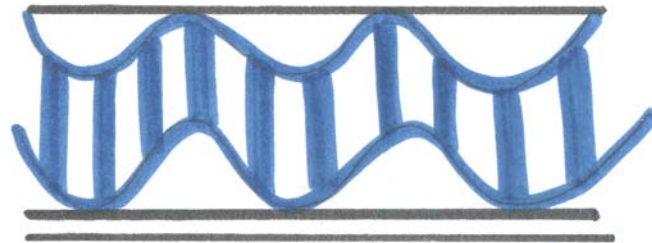


m1 -- crossline symmetry; no additional symmetry

by Alicia Divelbiss



Ke  
mm



mg



ml



lm<sup>e</sup>



lg



12



11

by Kendra Starks

# Seven Types of Borders



**mm-** mm borders have centerline and crossline reflectional symmetry.



**mg-** mg borders have crossline and glide reflectional symmetry.



**m1-** m1 borders have crossline reflectional symmetry.



**1m-** 1m borders have centerline reflectional symmetry.



**1g-** 1g borders have glide reflectional symmetry.



**12-12** borders have half-turn symmetry.



**11-** 11 borders have translational symmetry only.

by Courtney Griffiths

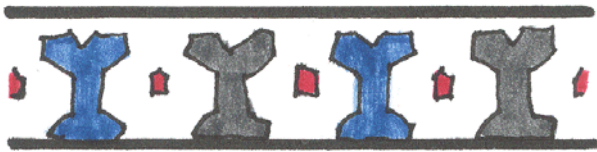
mg



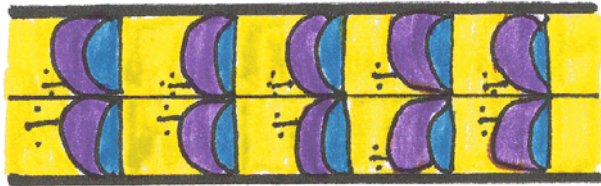
mm



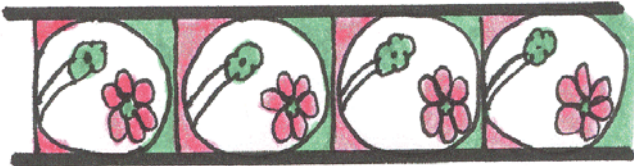
ml



1m



11



12

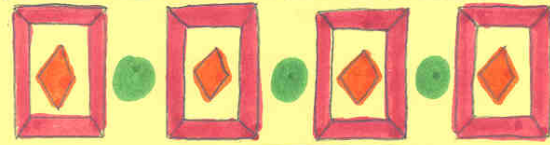


1g



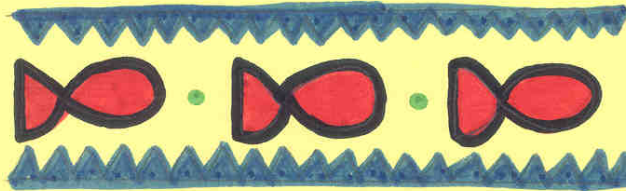
by Trisha Greenwood

# The 7 Border Patterns



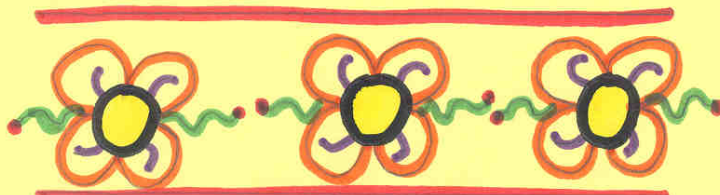
Crossline Symmetry and  
Centerline Symmetry

mm



No Crossline Symmetry and  
Centerline Symmetry

1m



No Crossline Symmetry and  
Half-turn Symmetry

12

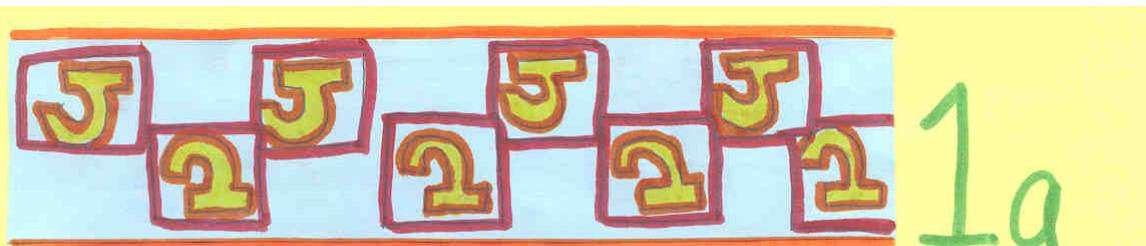


Crossline Symmetry and  
Glide Reflectional Symmetry

mg

Molly Hazelip

by Molly Hazelip



No Crossline Symmetry and  
Glide Reflectional Symmetry



Crossline Symmetry and  
No Additional Symmetry



No Crossline Symmetry and  
No Additional Symmetry

by Molly Hazelip