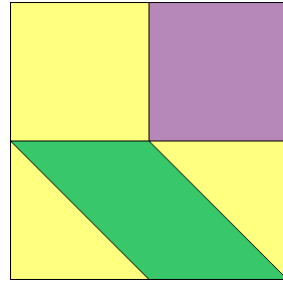


Math 7 – Quilt Design

Performance Task: Transformations

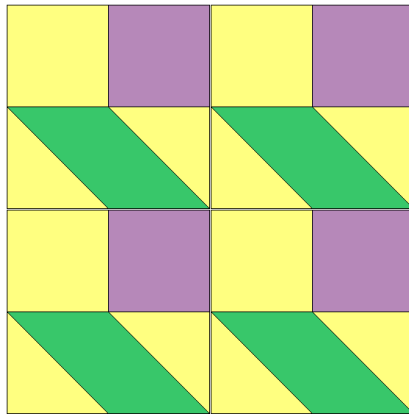
Definitions:

Quilt Cell: The basic block that a quilt is built out of.

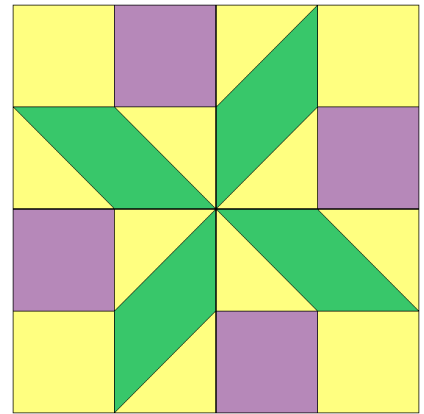


Quilt Unit: An arrangement of quilt cells (usually 4 or more) that have been transformed in some way.

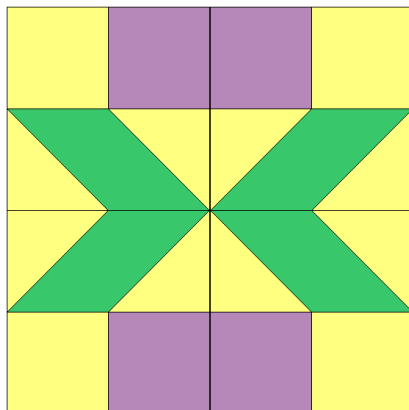
Unit A



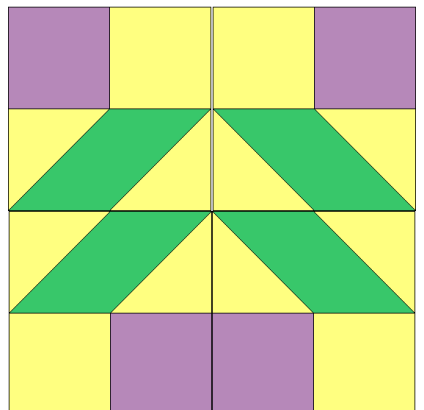
Unit B



Unit C



Unit D



Part A:

1. Locate the original cell in the unit and describe the transformations that were used to create each of the quilt units above.

Part B:

1. Design a quilt cell.
2. Use your quilt cell to create four units based on the following instructions.
 - a. Unit A: contains four (or more) cells created by translating the original cell.
 - b. Unit B: contains four (or more) cells created by reflecting the original cell.
 - c. Unit C: contains four (or more) cells created by rotating the original cell.
 - d. Unit D: contains four (or more) cells created by a combination of two or more transformations.
3. Describe the specific transformations used to create each unit described above.
4. Create a complete quilt design made of at least 9 units (you may include sashing and/or borders if you like). You may include an alternate cell and other units based on that cell if you like.
5. Describe the transformations you used to create your quilt design.