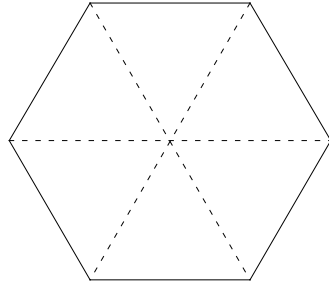


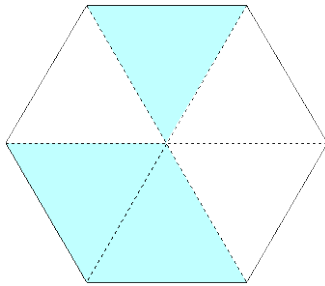
HEX-TILE PATTERNS

Suppose you are designing patterns to be painted on hexagonal wall tiles that have shallow grooves on the front (shown as dotted lines below) which divide each tile into equilateral triangles.

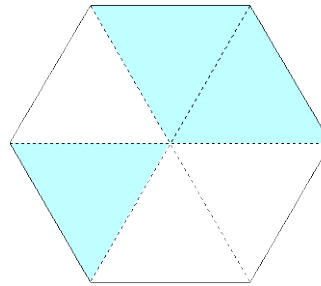


If you are to only paint triangles bordered by the grooves, how many designs are possible? (Hint: There are more than a dozen.)

Use a regular hexagon on Geo-Pro to draw as many different patterns as you can. One possible design is shown below.



One possible tile design.



Note: This is considered the same as the design at left as it may be rotated to appear identical.

Answers
HEX-TILE PATTERNS

There are 14 possible designs.

