

# Investigating Patterns

Learning Objective:

To be able to create patterns using rotation, symmetry and reflection.

What do  
these words  
mean?



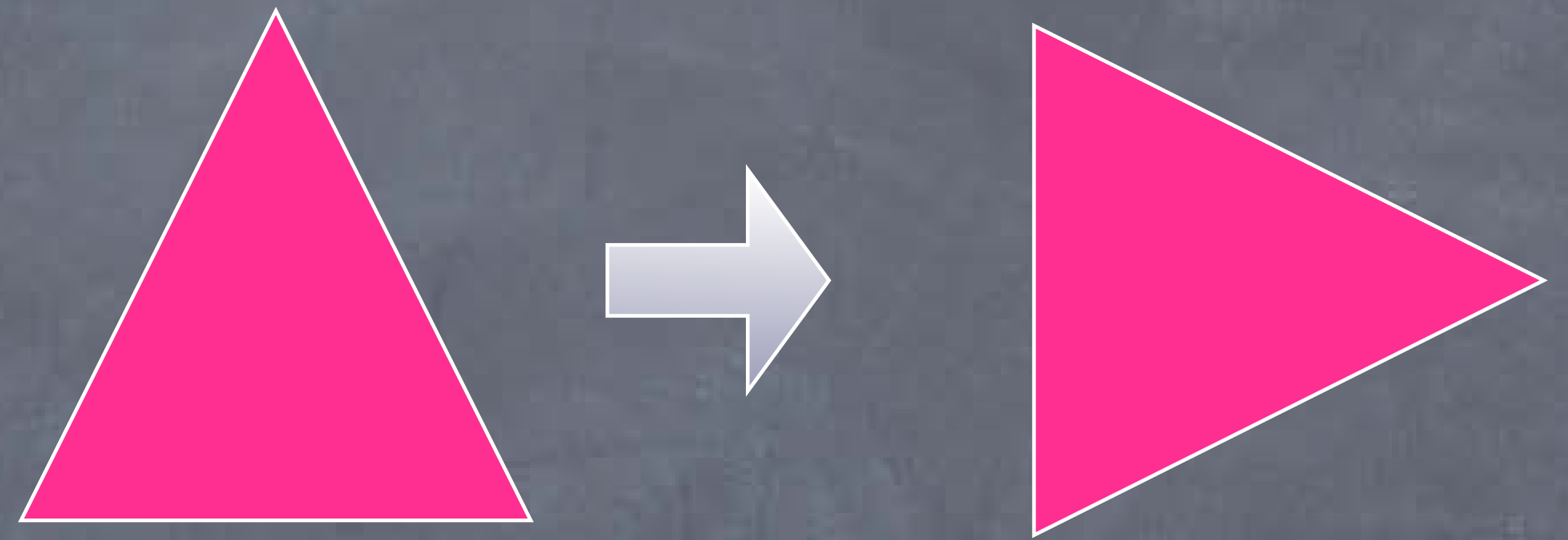
Rotation  
Reflection  
Symmetry

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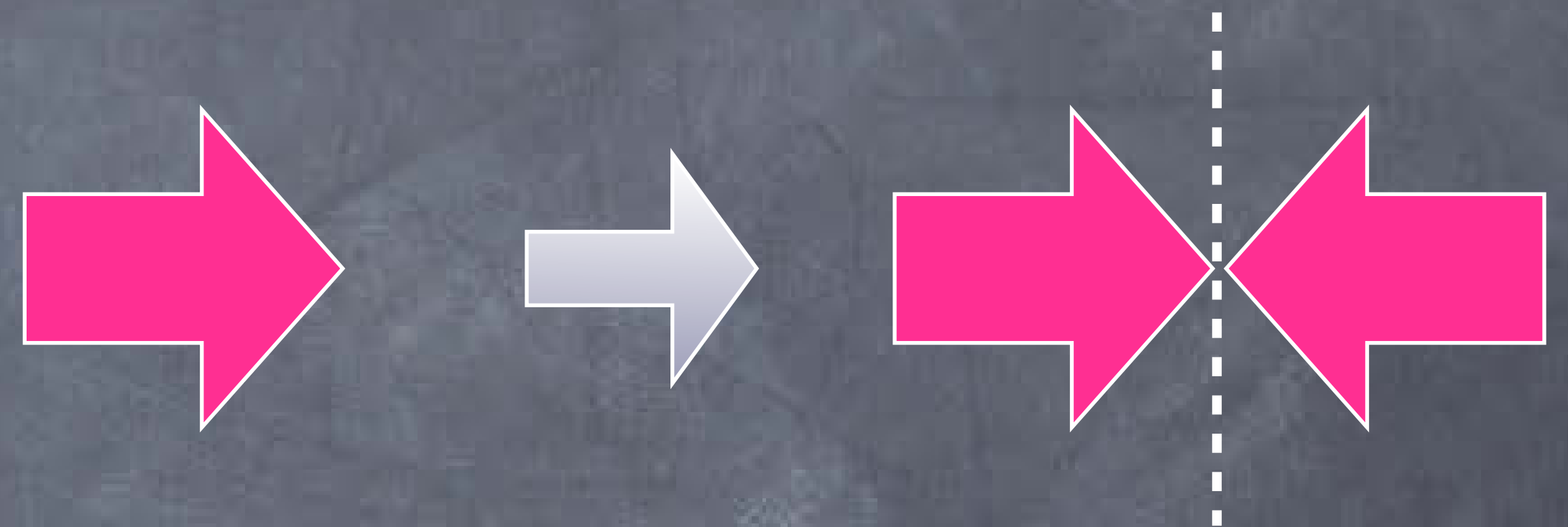
# Rotation

To move an object in a circle around an axis or line.



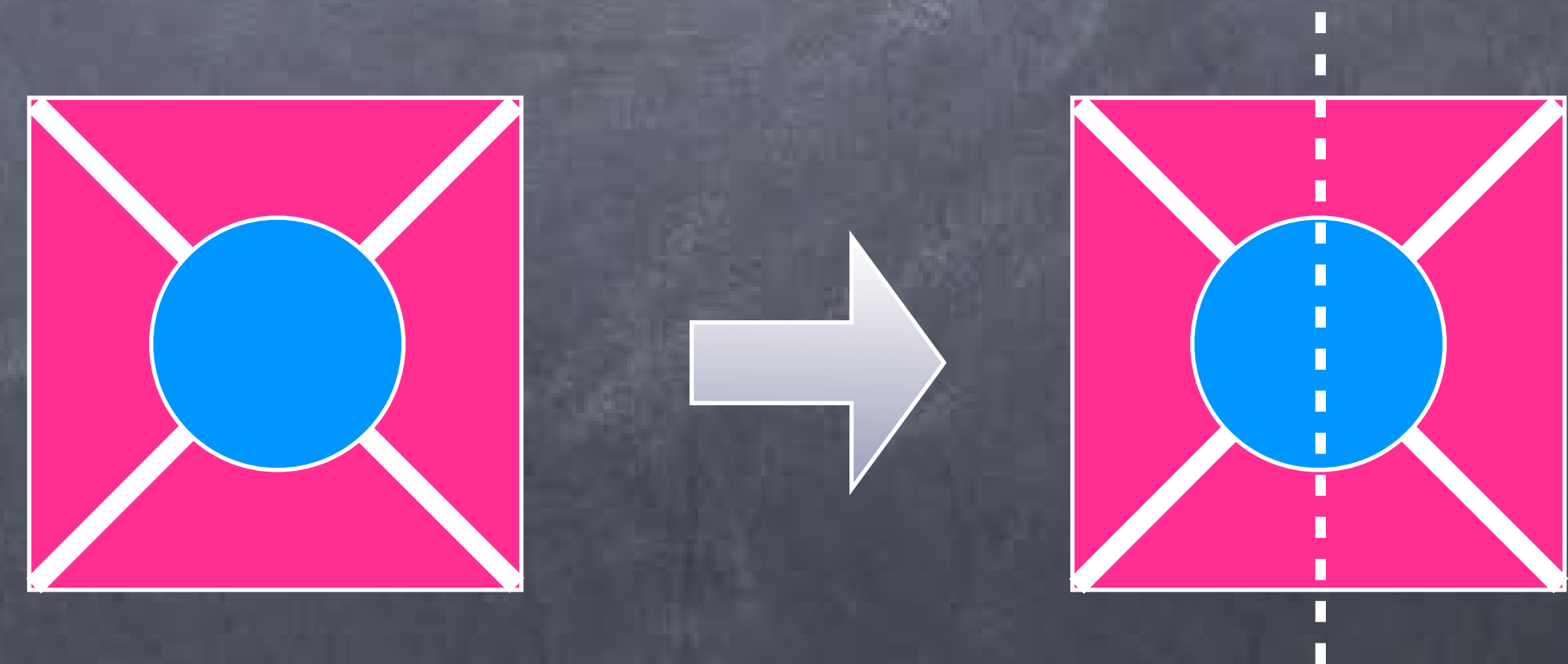
# Reflection

To flip an object over a mirror line



# Symmetry

When two objects face each other and have exactly the same parts.



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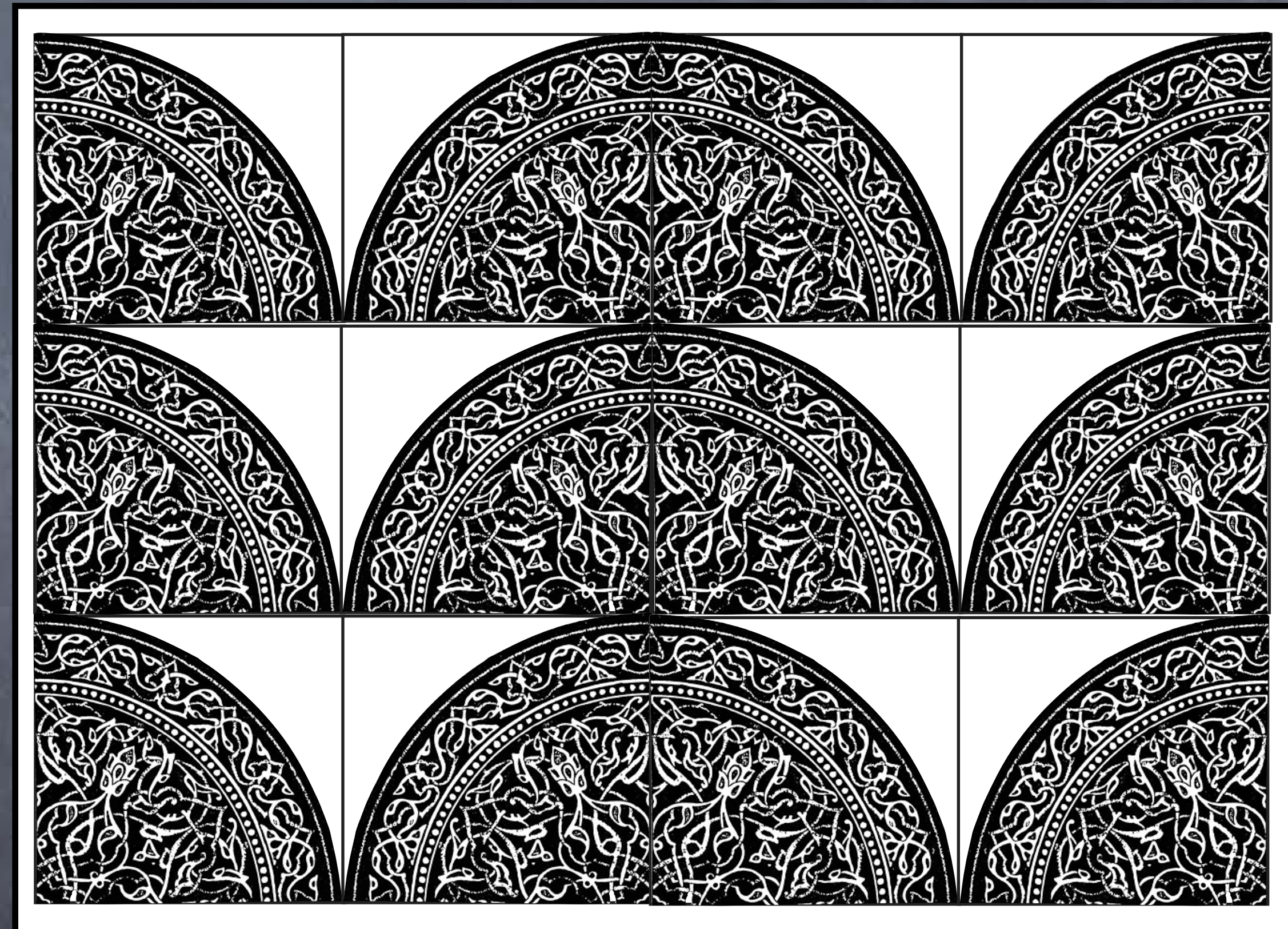
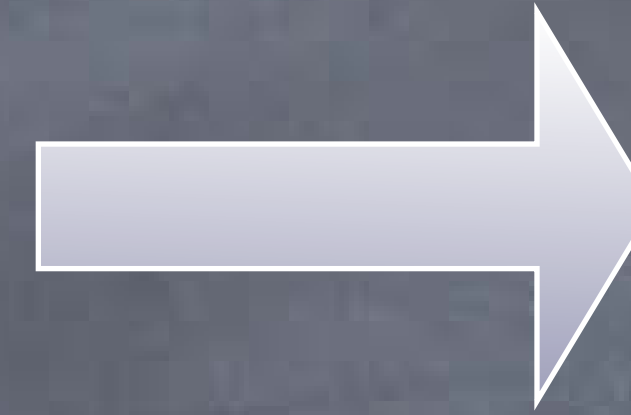
NEXT



Look at  
this  
pattern.  
What can  
you see?



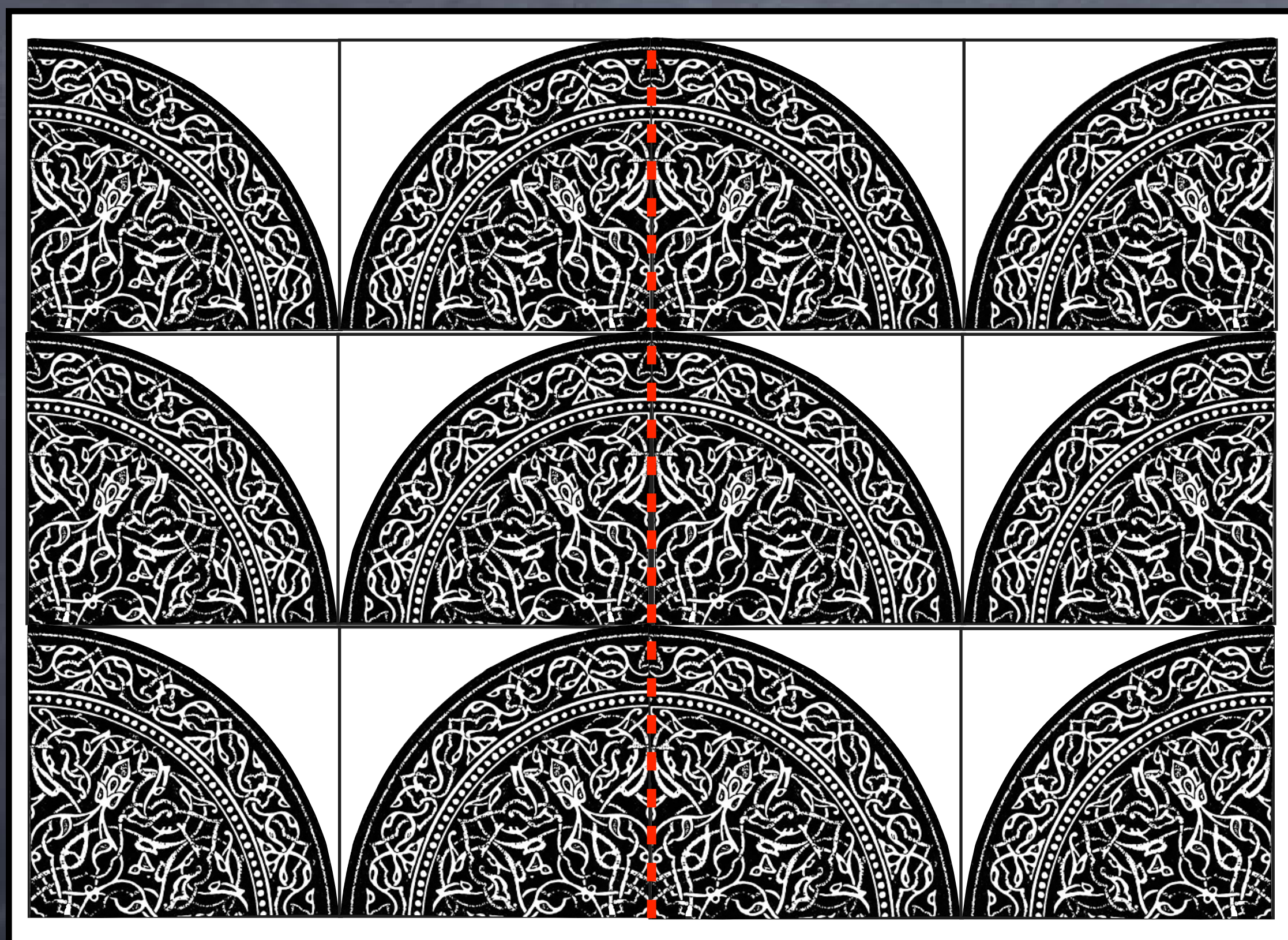
How has the shape  
been arranged to  
create this  
pattern?



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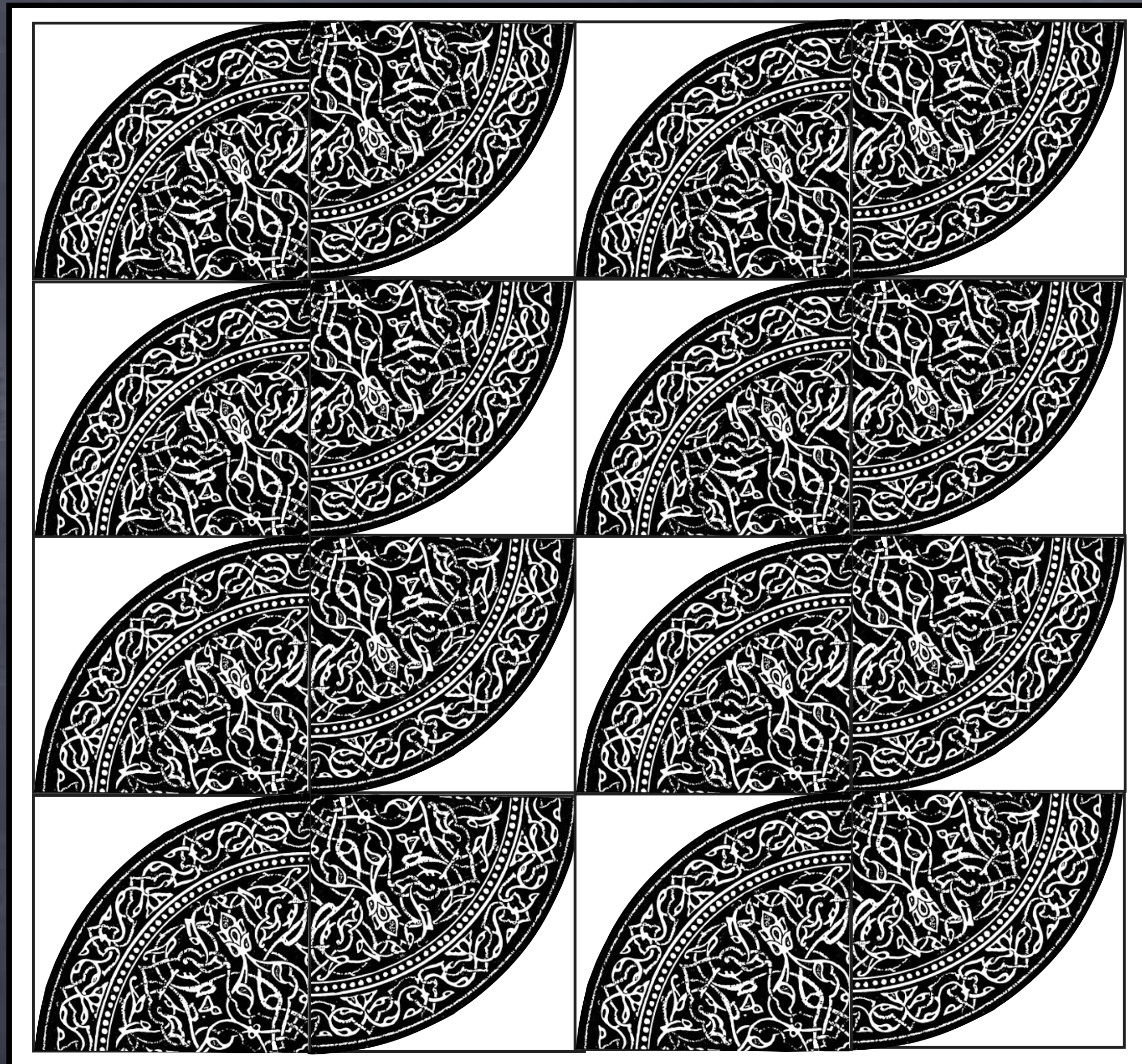


The shape was  
ROTATED then it was  
arranged in a  
SYMMETRICAL  
pattern.

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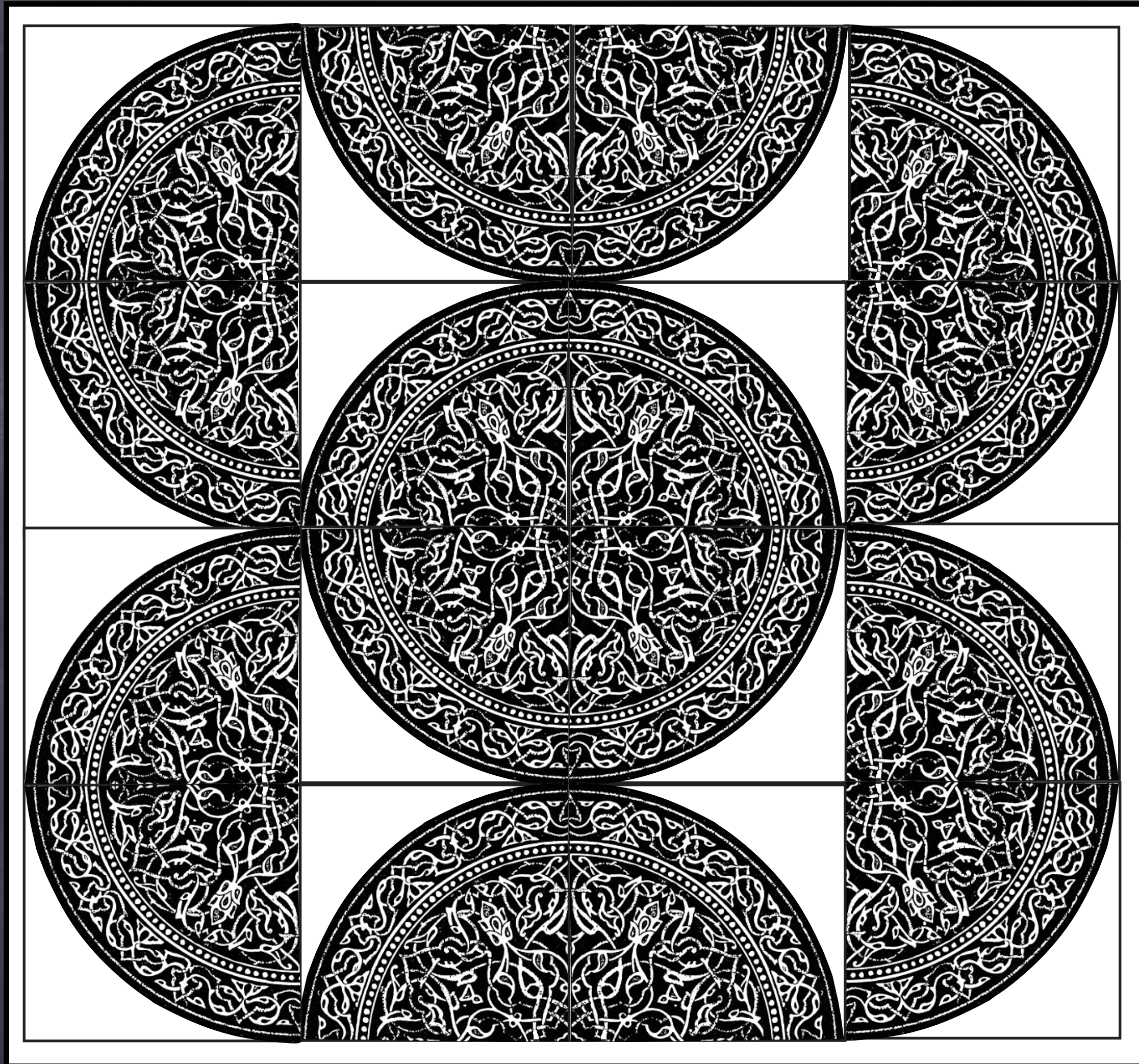
Look at this  
pattern.  
How was it made?



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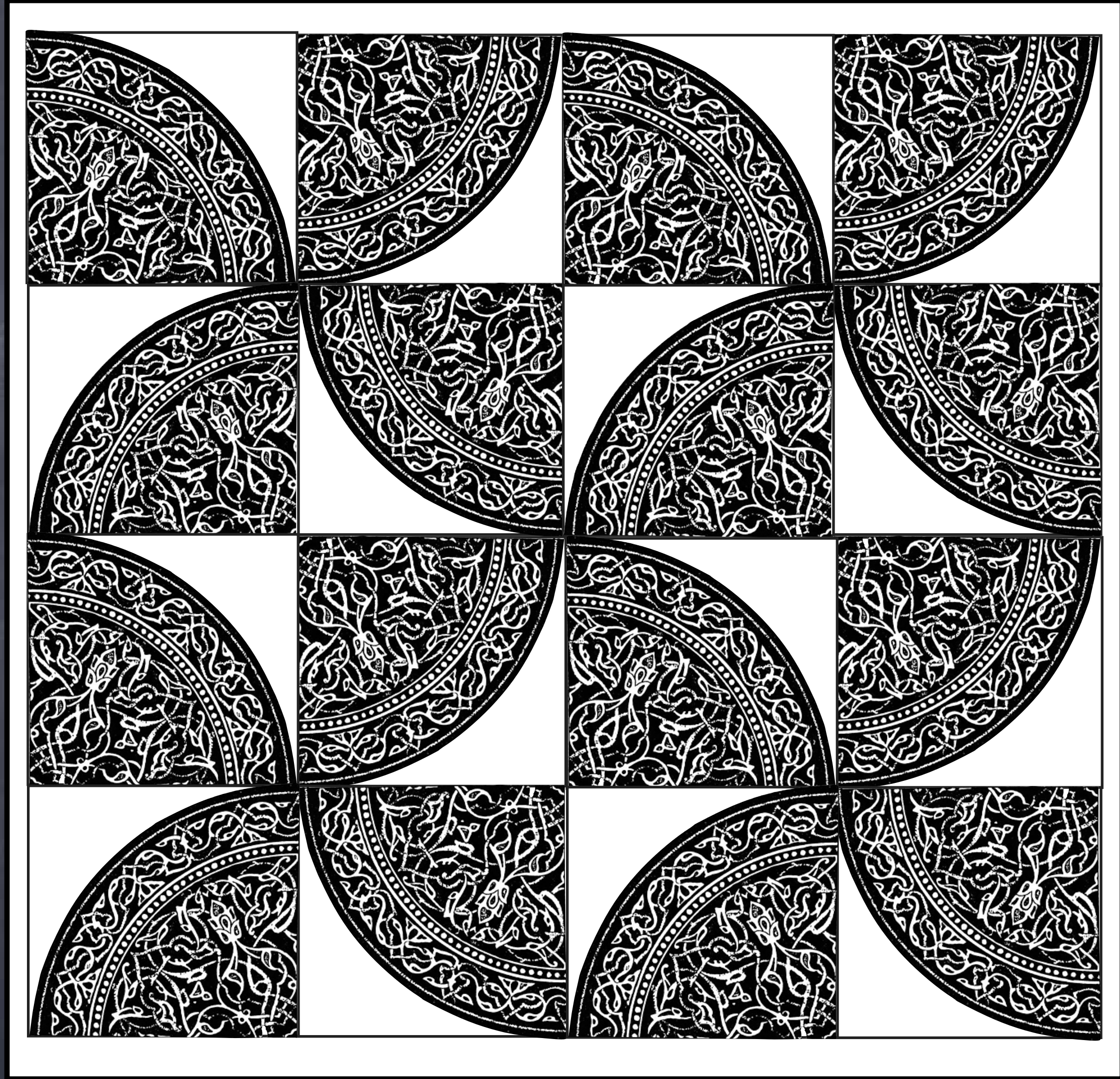




Look at this  
pattern.  
How was it made?







Look at this  
pattern.  
How was it made?

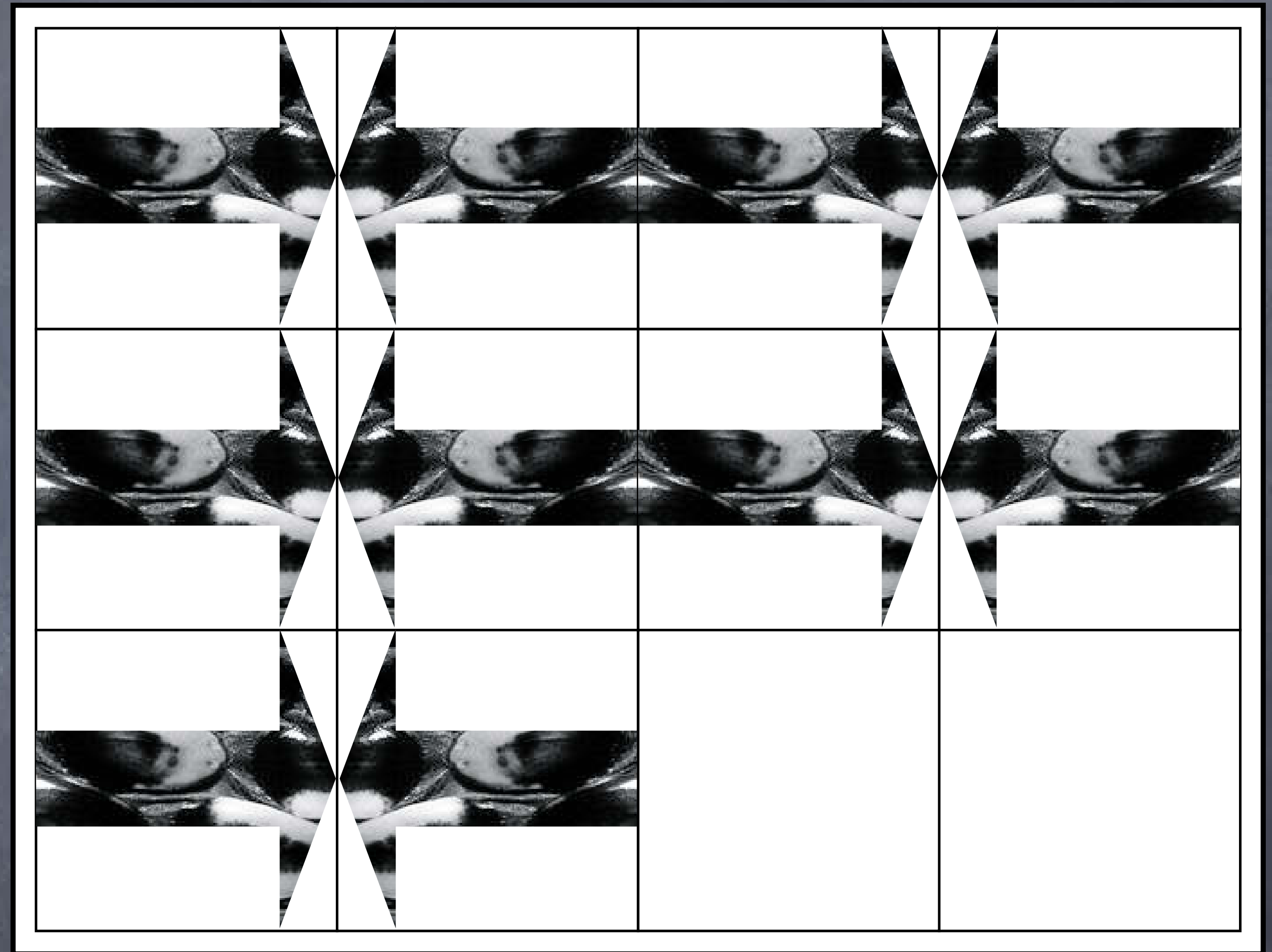


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Can you complete  
the pattern on this  
grid? Which way  
round would the  
shape have to be?

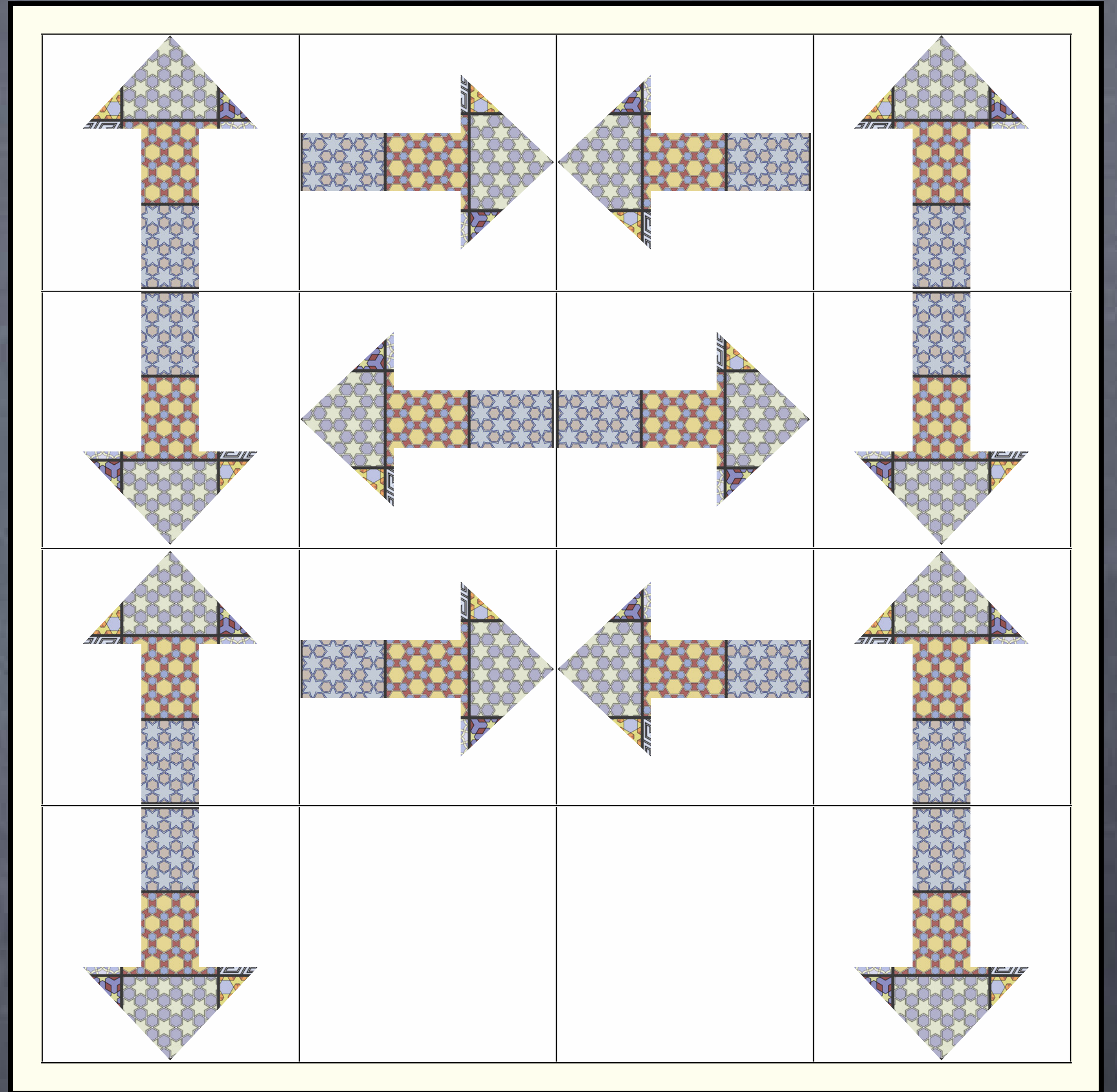


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Can you complete  
the pattern on this  
grid? Which way  
round would the  
shape have to be?

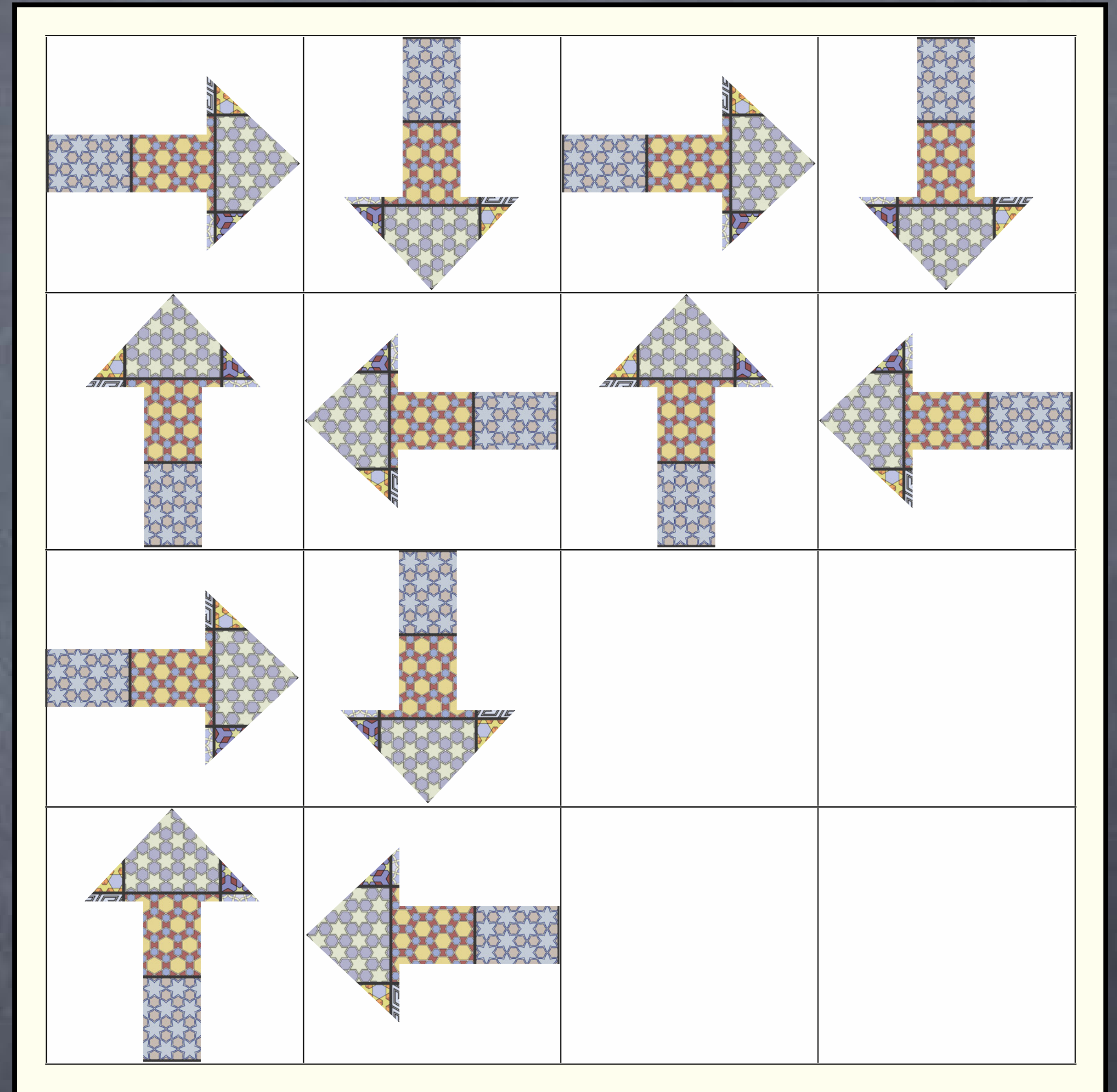


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Can you complete the  
pattern on this grid?  
Which way round  
would the shape  
have to be?



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Today, you will make a pattern in a grid like the ones you have just seen.

How will you do it?  
What will you need?

