



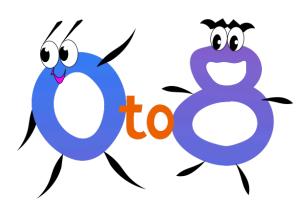
Naomi Reeley



Lisa Grant

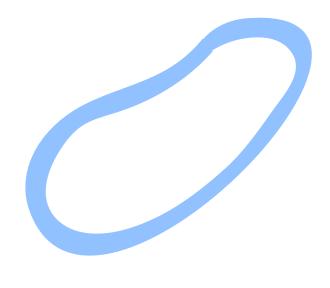


Carolyn Pfister



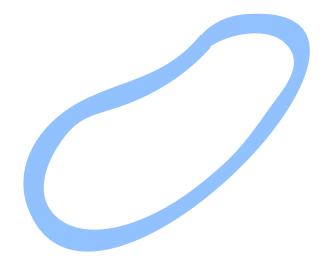
Try the activities with us What math do you notice? Contribute to the chat and jamboard https://bit.ly/3qJdCpl

Can you walk through paper?

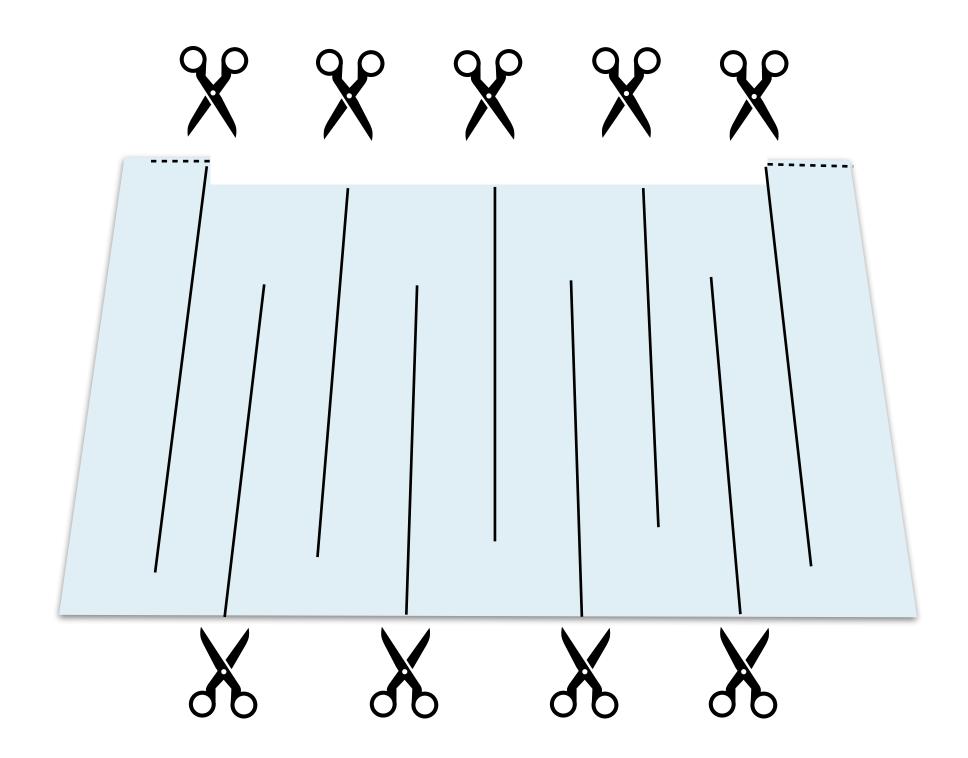


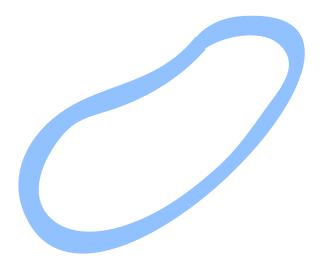
Fold paper in half Cut a notch along the fold Keep paper folded while cutting





Cut paper as shown Keep paper folded while cutting

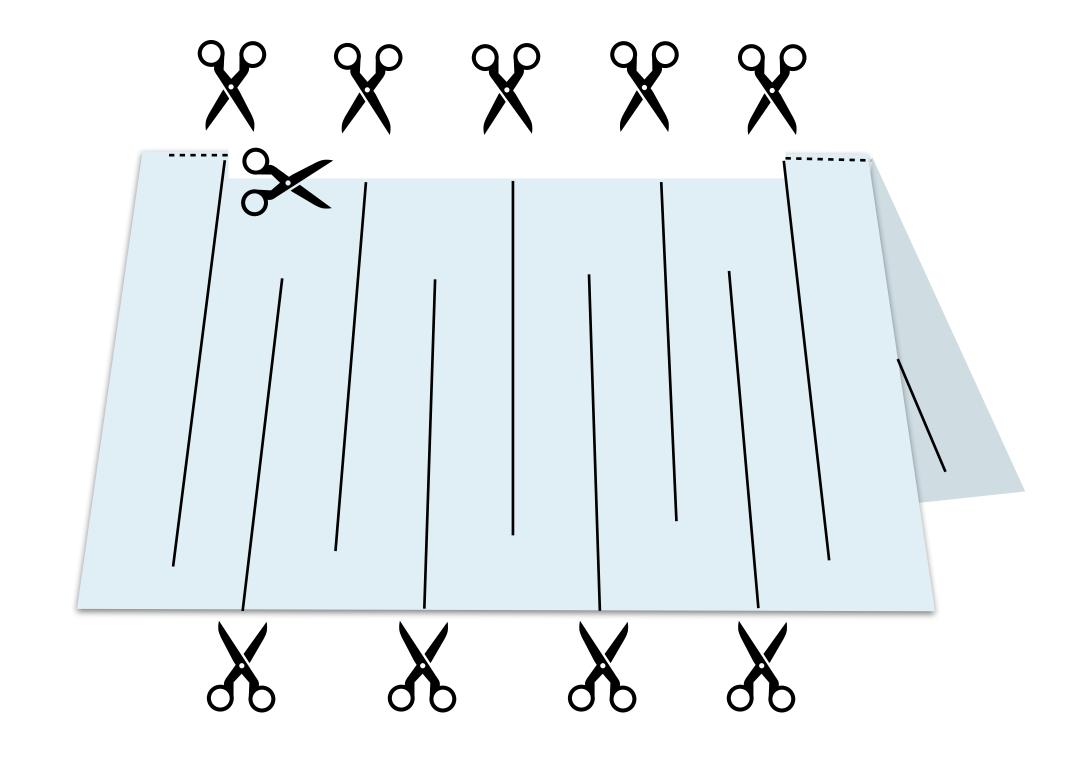


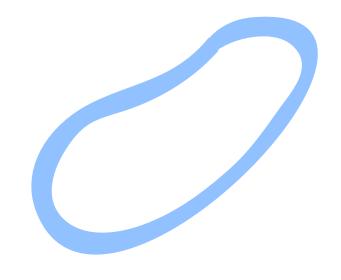


How large was the hole you created? What can you do to make it bigger?

Share your creation:

https://bit.ly/3qJdCpl





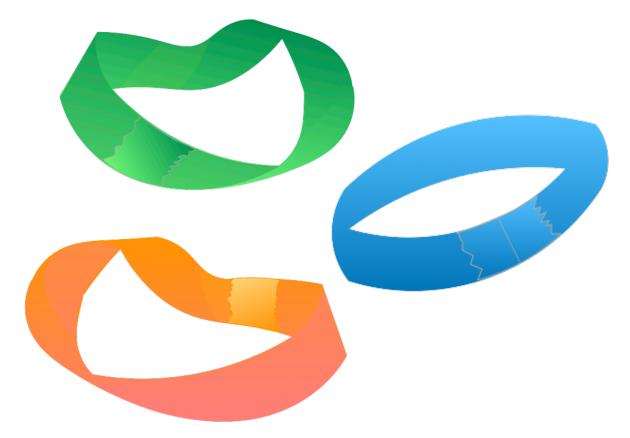
To think about: Can you walk through the hole you cut? What math did we use?

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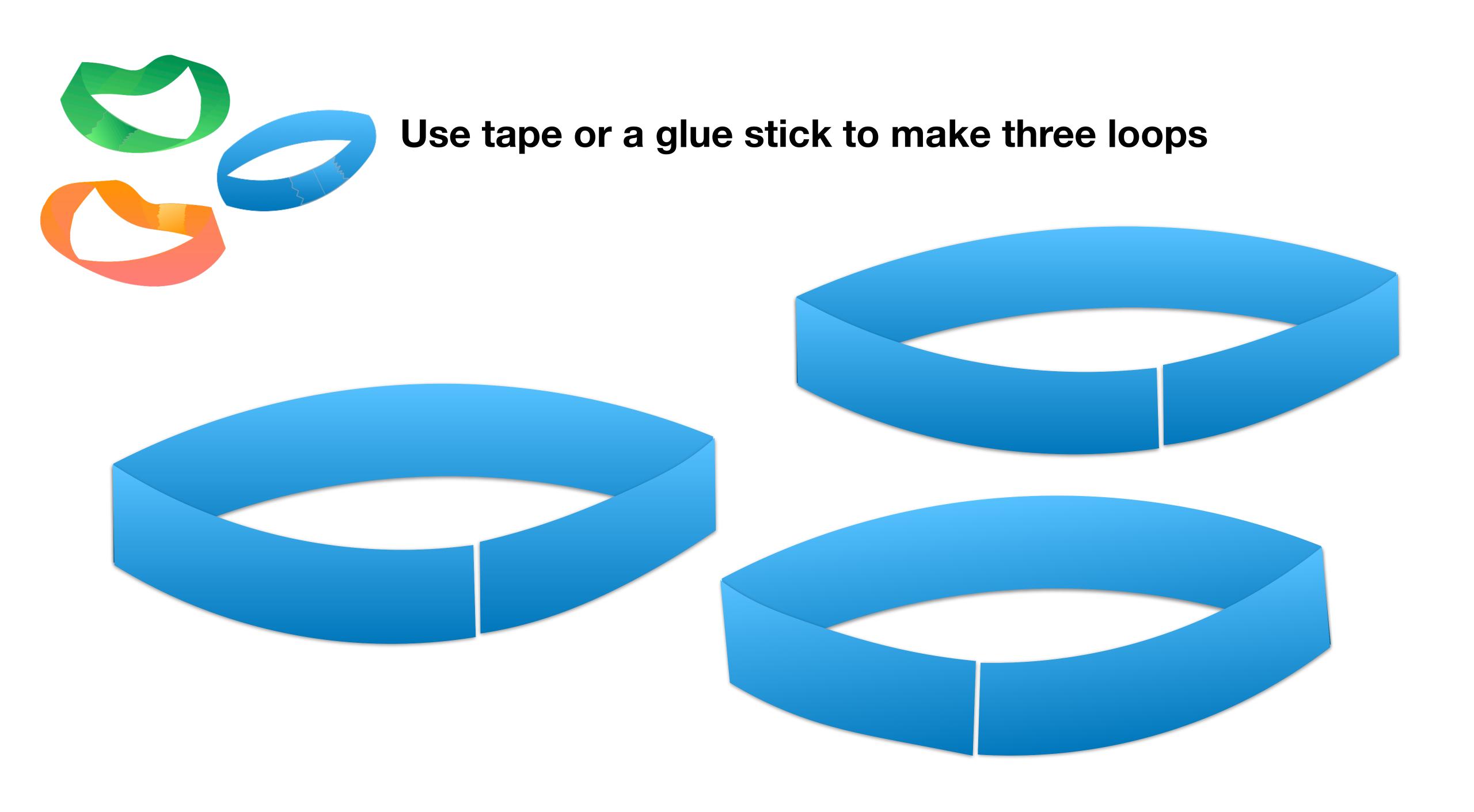
Challenges for later:
Can you walk through an index card?
How else could you cut a paper hole?

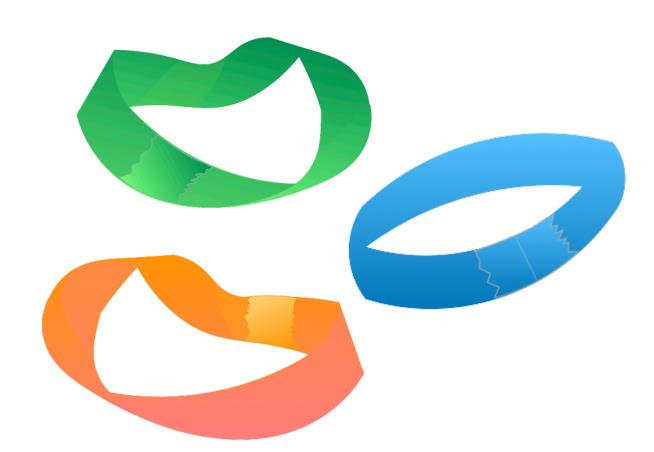
What can you do with a paper loop?



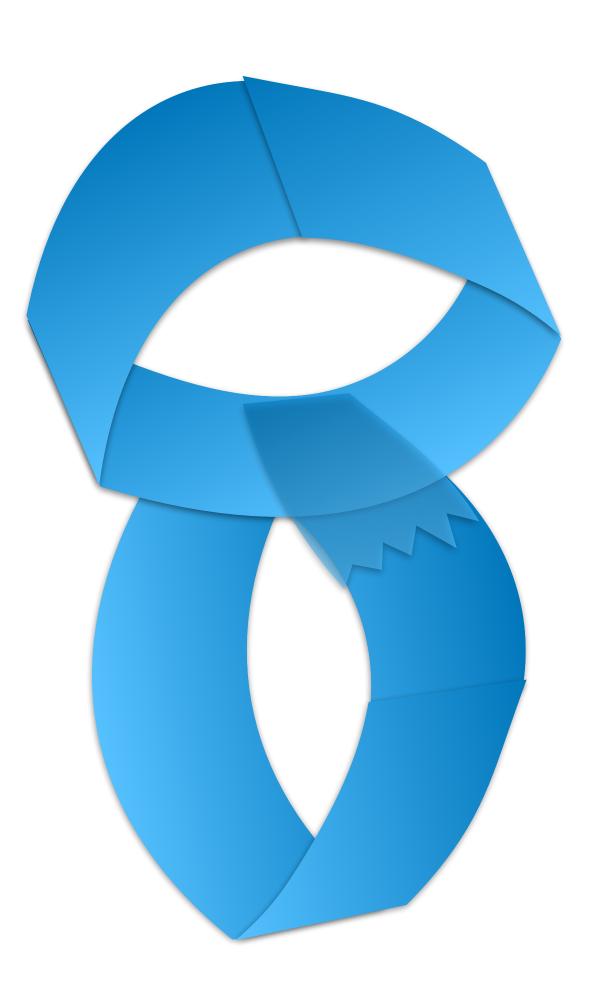
Cut six strips of paper

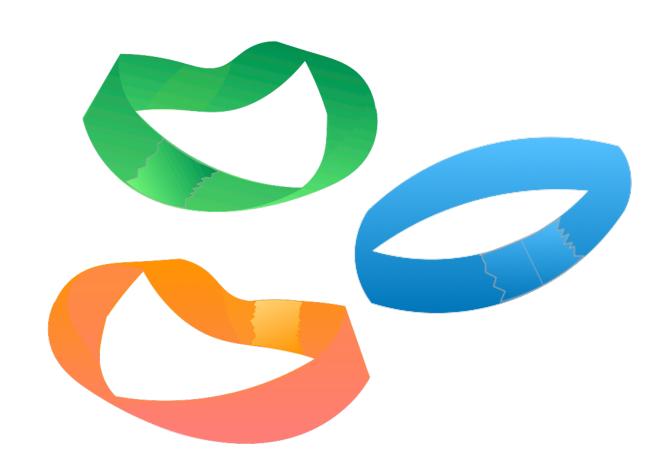
0	
9	



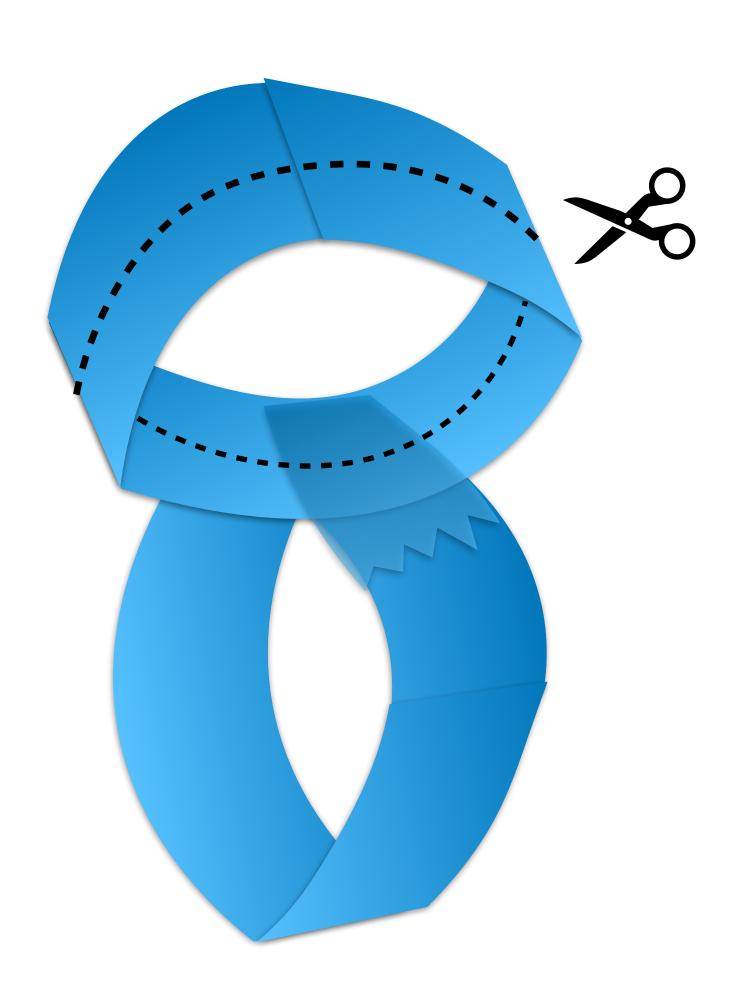


Tape or glue two loops together at 90 degree angles



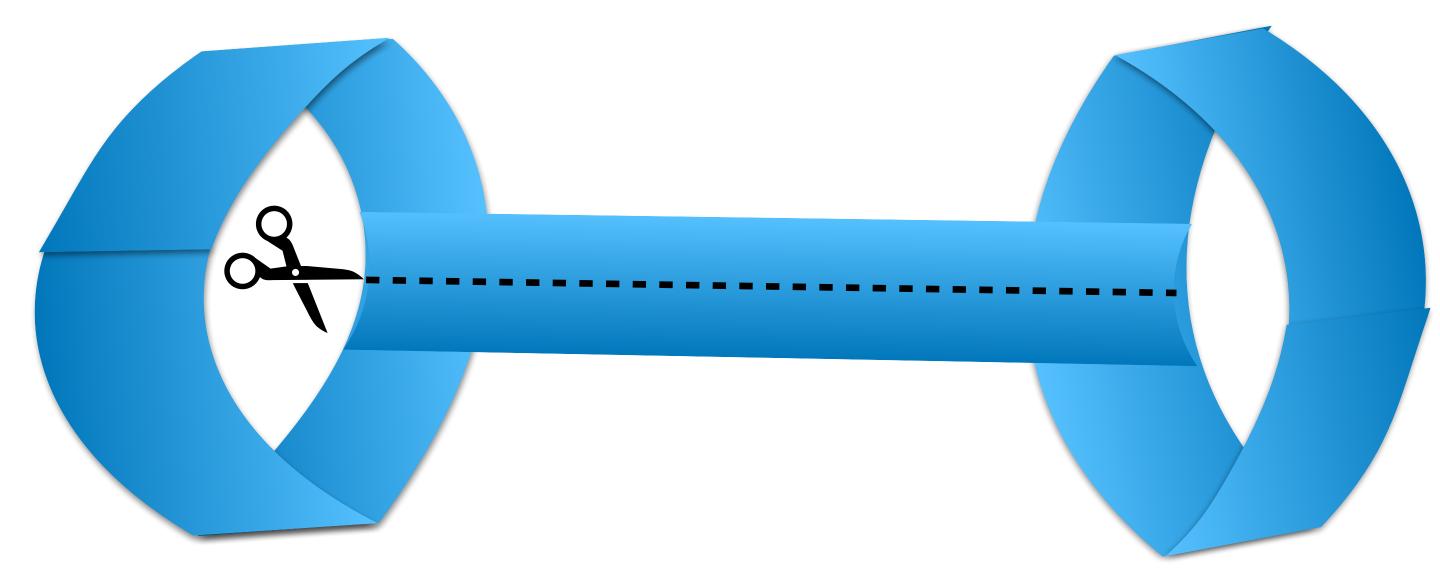


Cut one loop and through the other loop as shown Predict what the new shape will look like before you cut



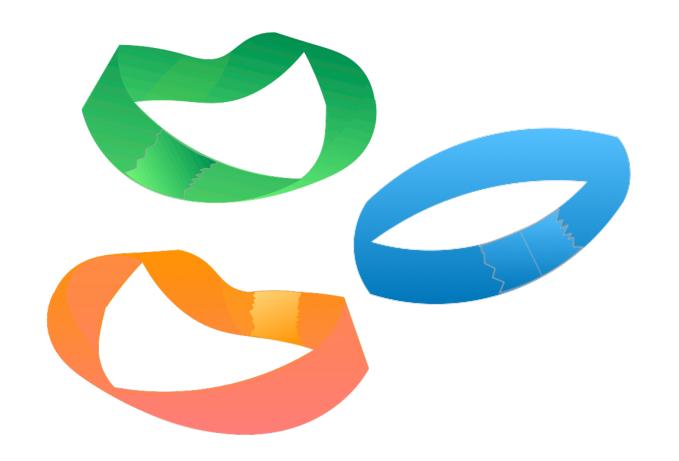


Cut the straight strip Predict what the new shape will look like before you cut

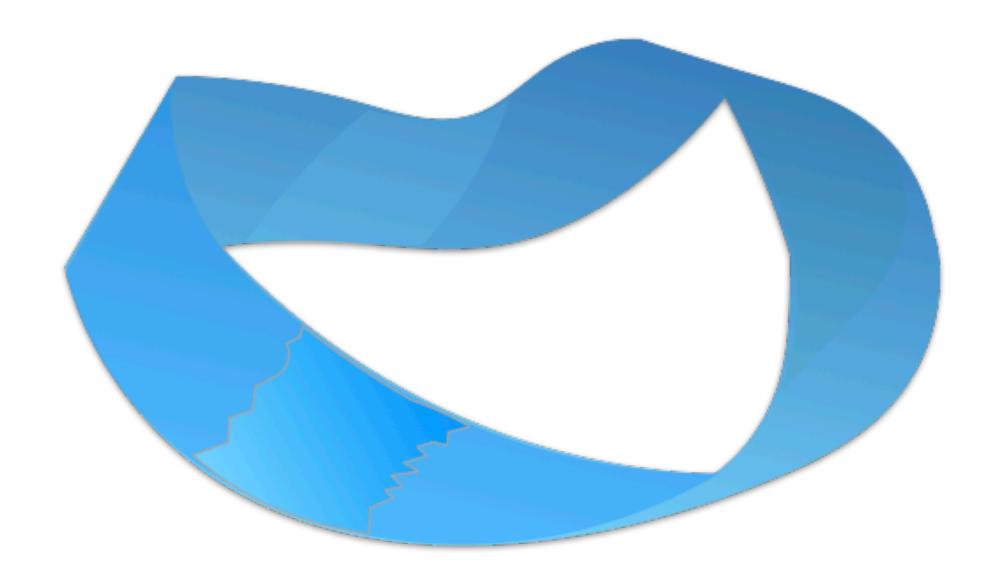


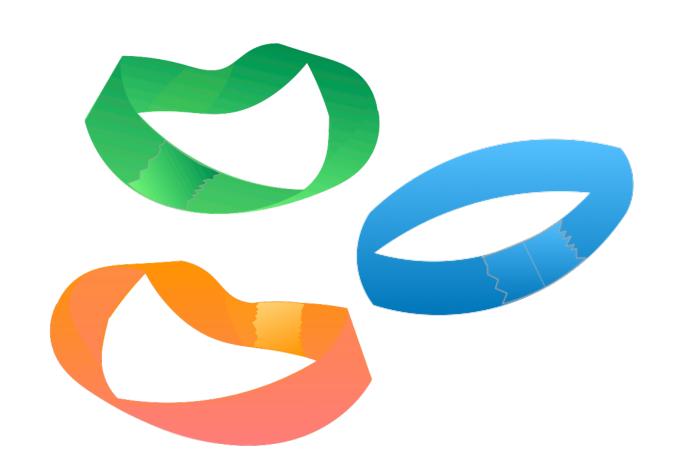
Share your creation:

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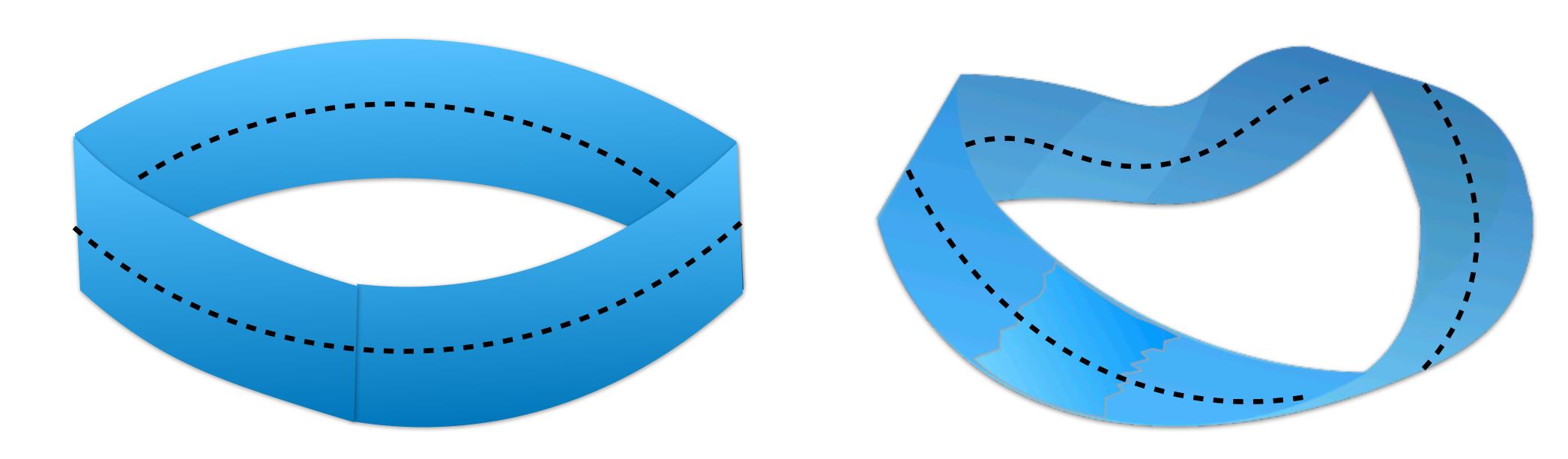


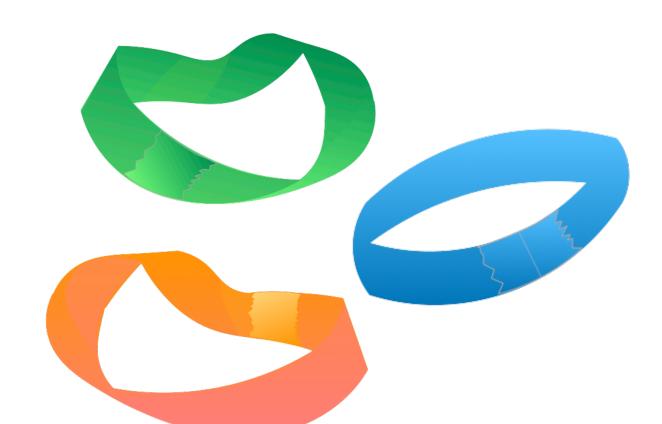
Make a loop Twist the paper before you tape it together





Cut around the middle of both loops What do you notice?

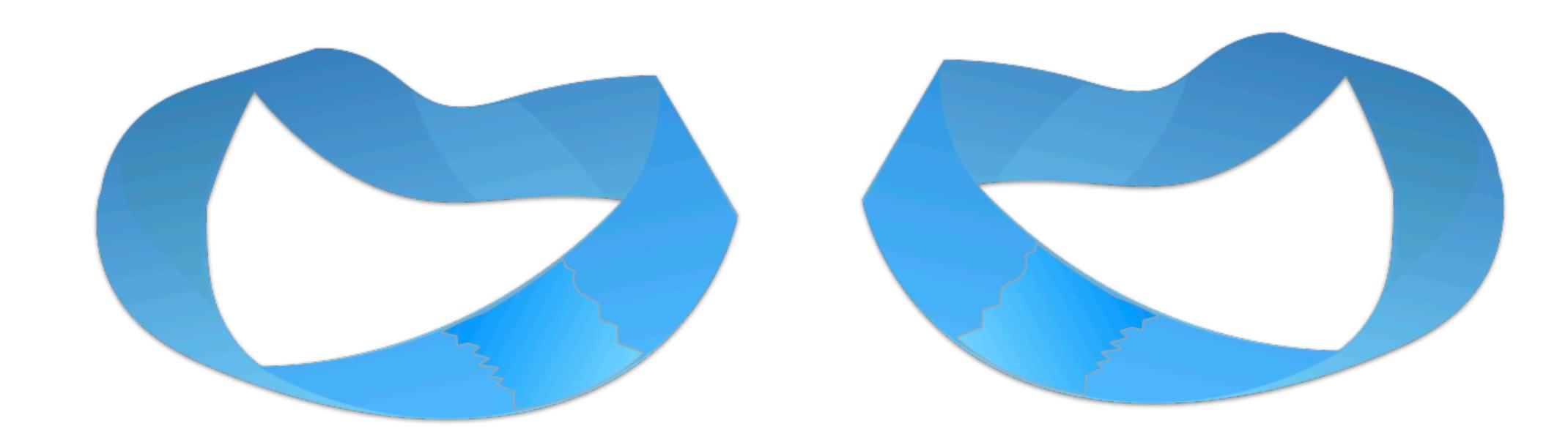




Make two loops with twists

Make one loop with a twist to the right

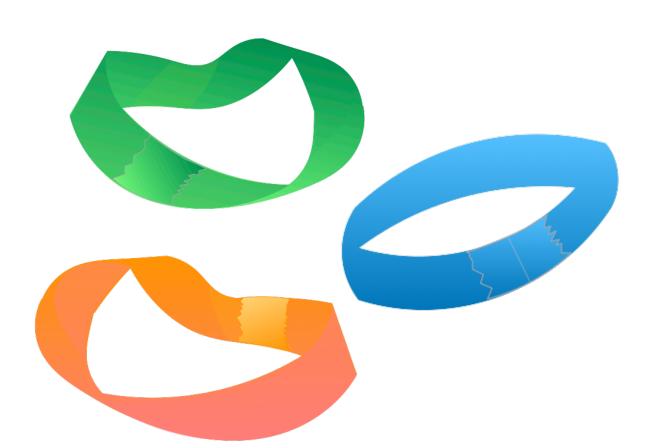
Make the other loop with a twist to the left



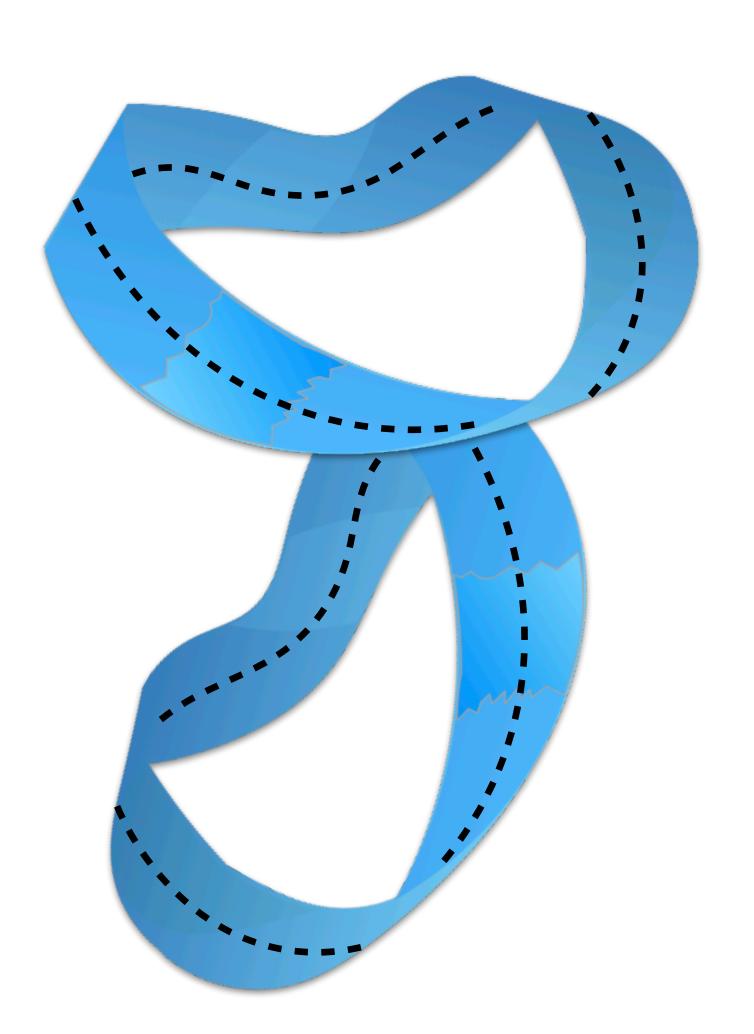


Tape or glue two loops together at 90 degree angles



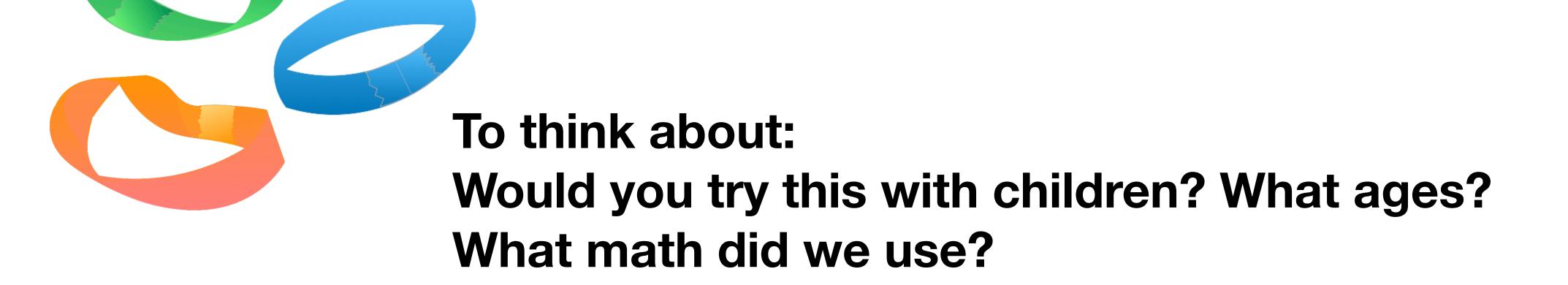


Tape or glue two loops together at 90 degree angles Predict what the new shape will look like before you cut



Share your creation:

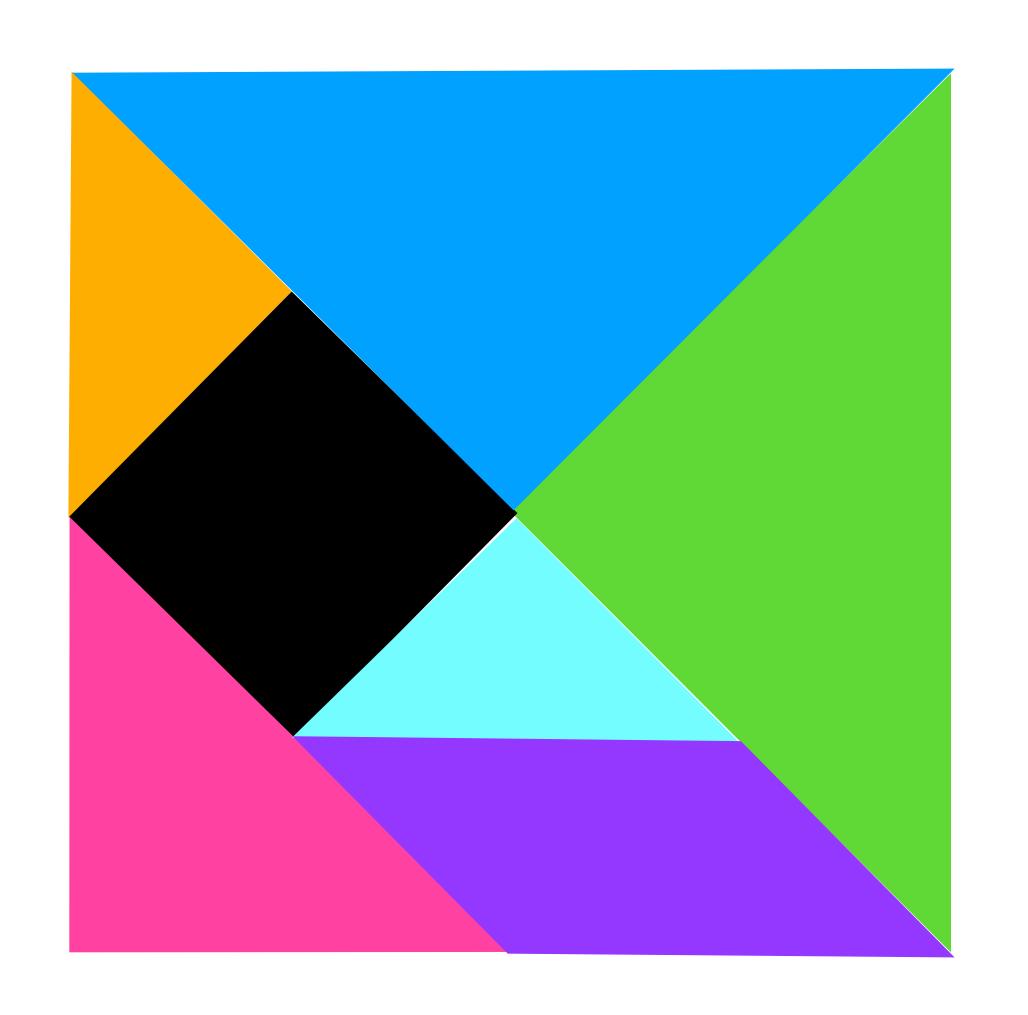
https://bit.ly/3qJdCpl



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Challenges for later:
Explore loops with more twists
Combine and cut other groupings of loops.

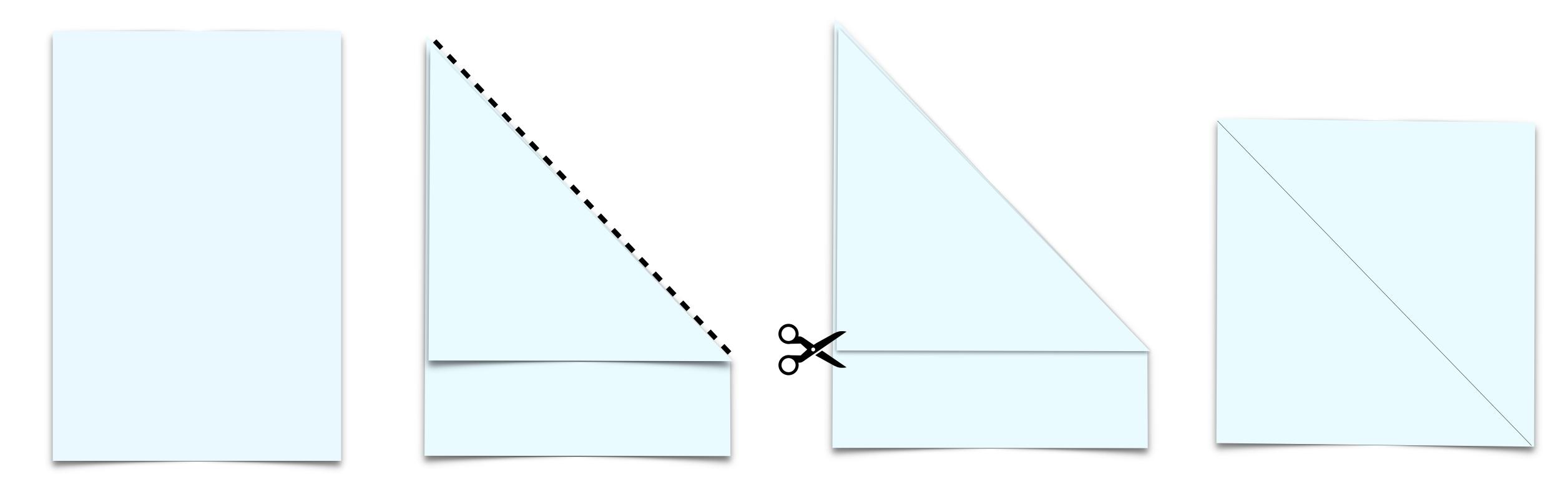
What can you make with tangrams?



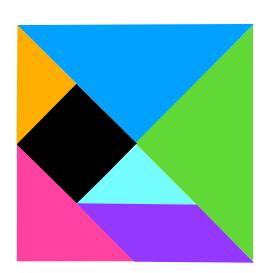
Tangrams: A puzzle made up of seven polygons (5 triangles, 1 square, and 1 parallelogram) that are often used to form other shapes.



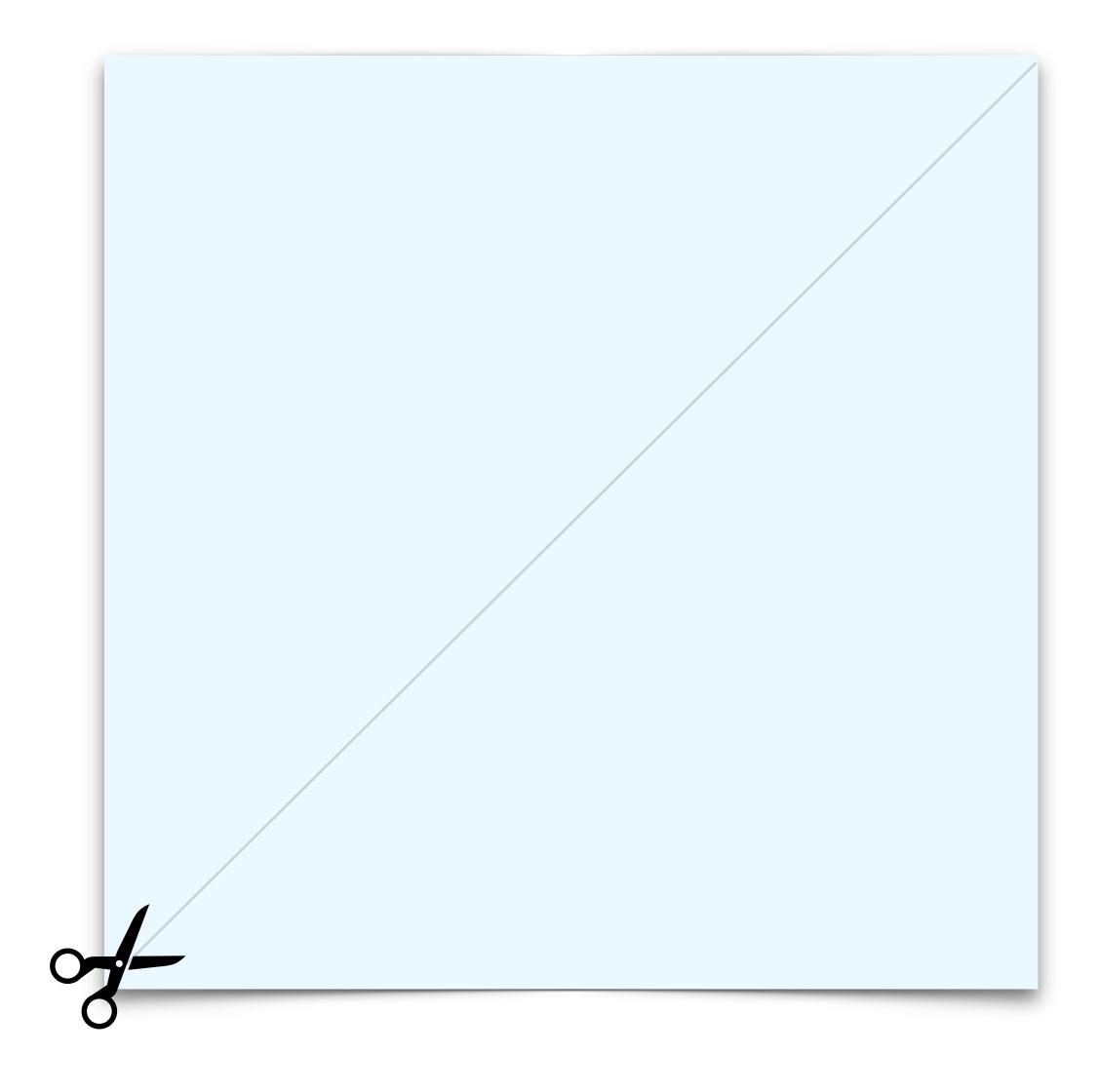
Make a Square Fold

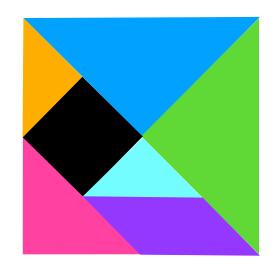


Rectangle Fold Cut Open



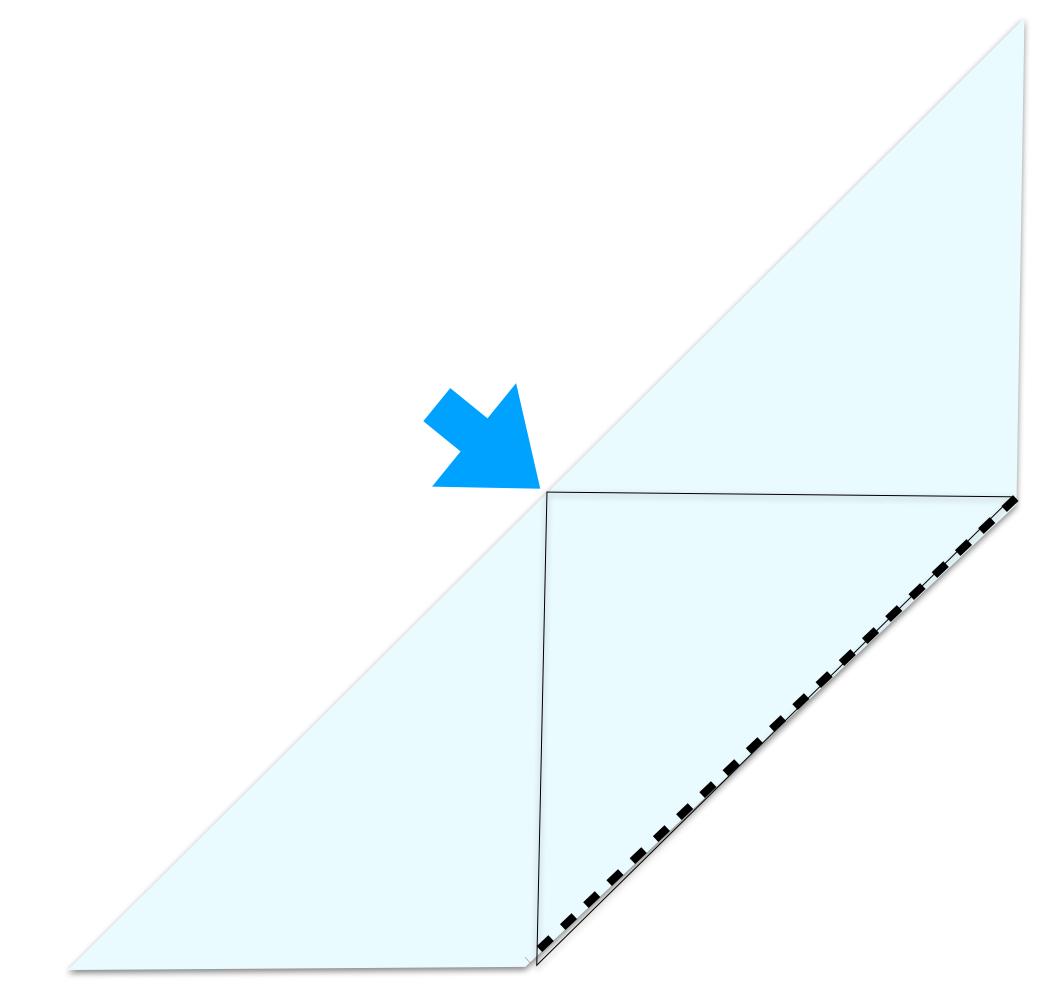
Cut along the fold Set one triangle aside

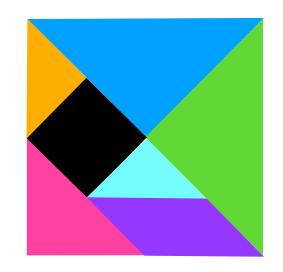




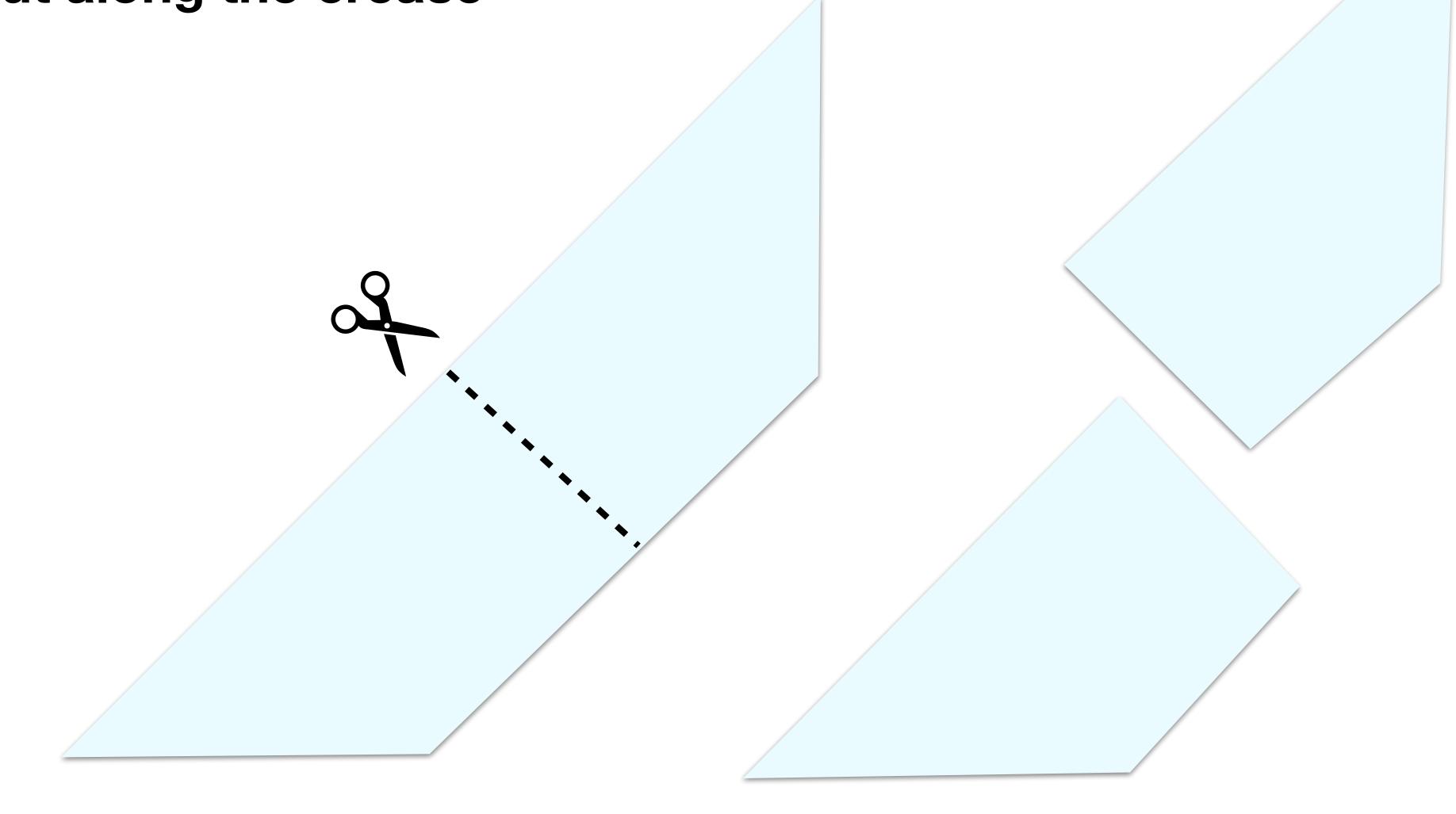
Gently fold side to side to find the middle Bend and fold the corner

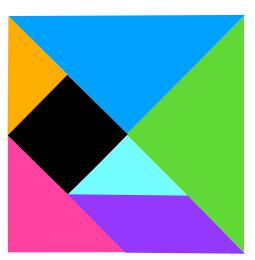
Cut along the crease



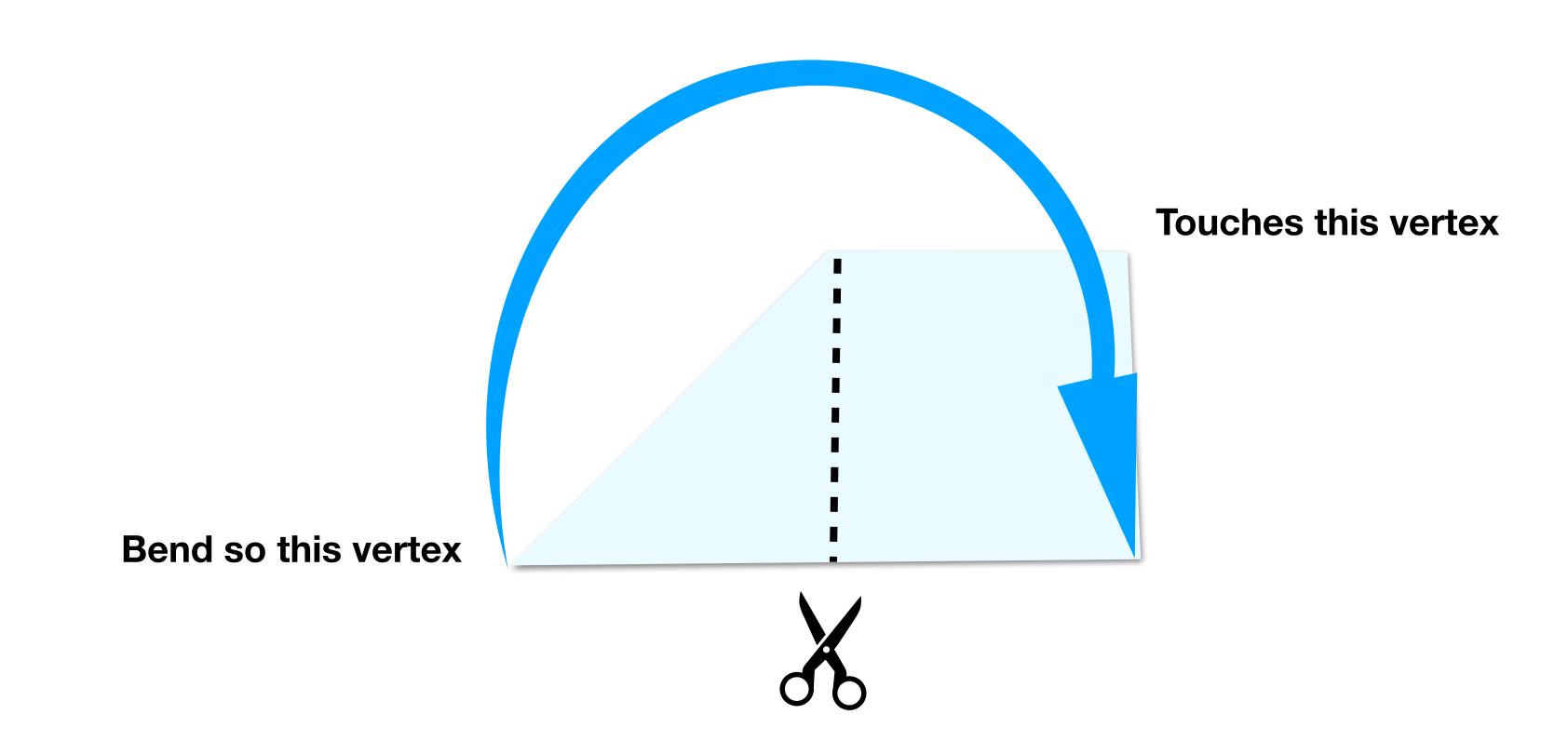


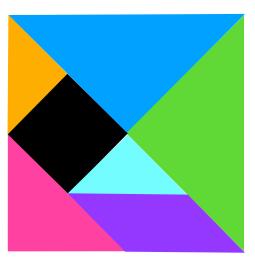
Fold the trapezoid in half like shown Cut along the crease



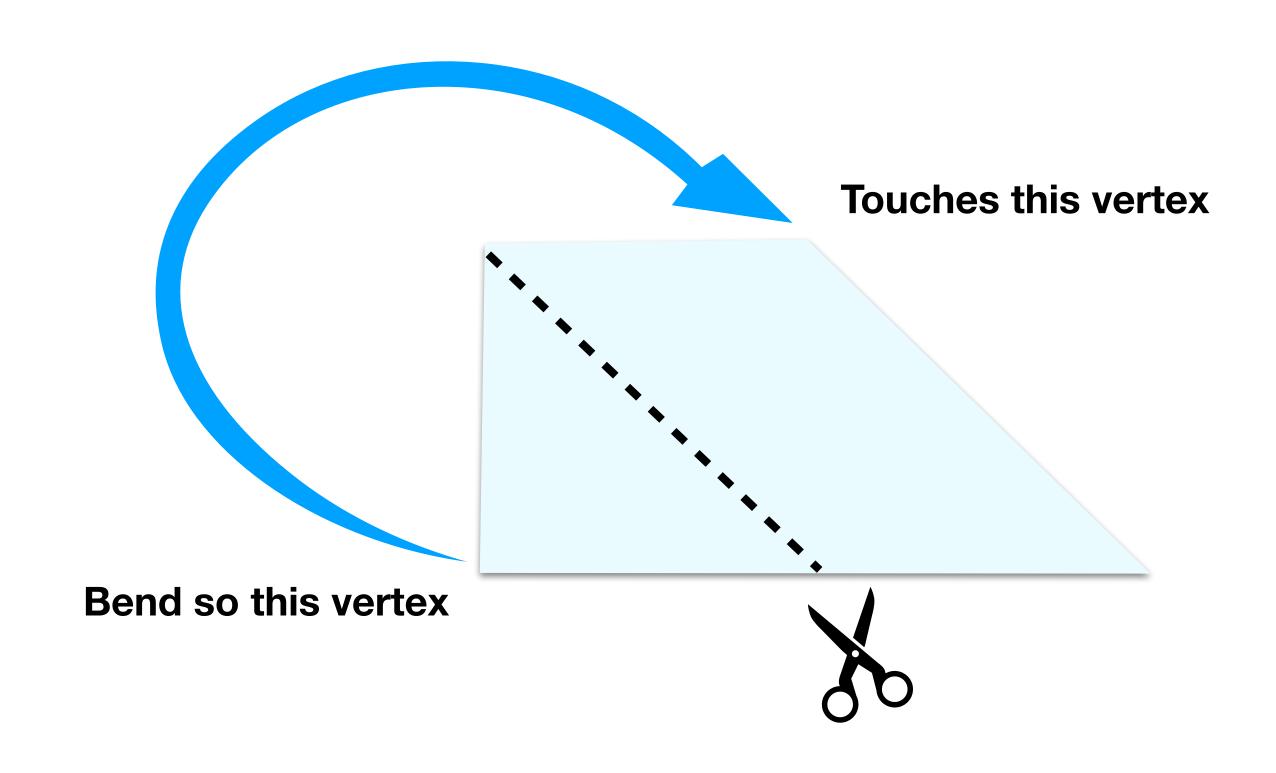


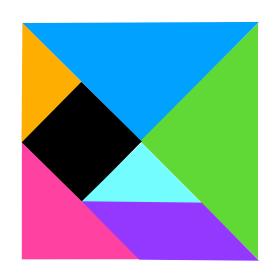
Fold the trapezoid so it creates a triangle and a square Cut along the crease



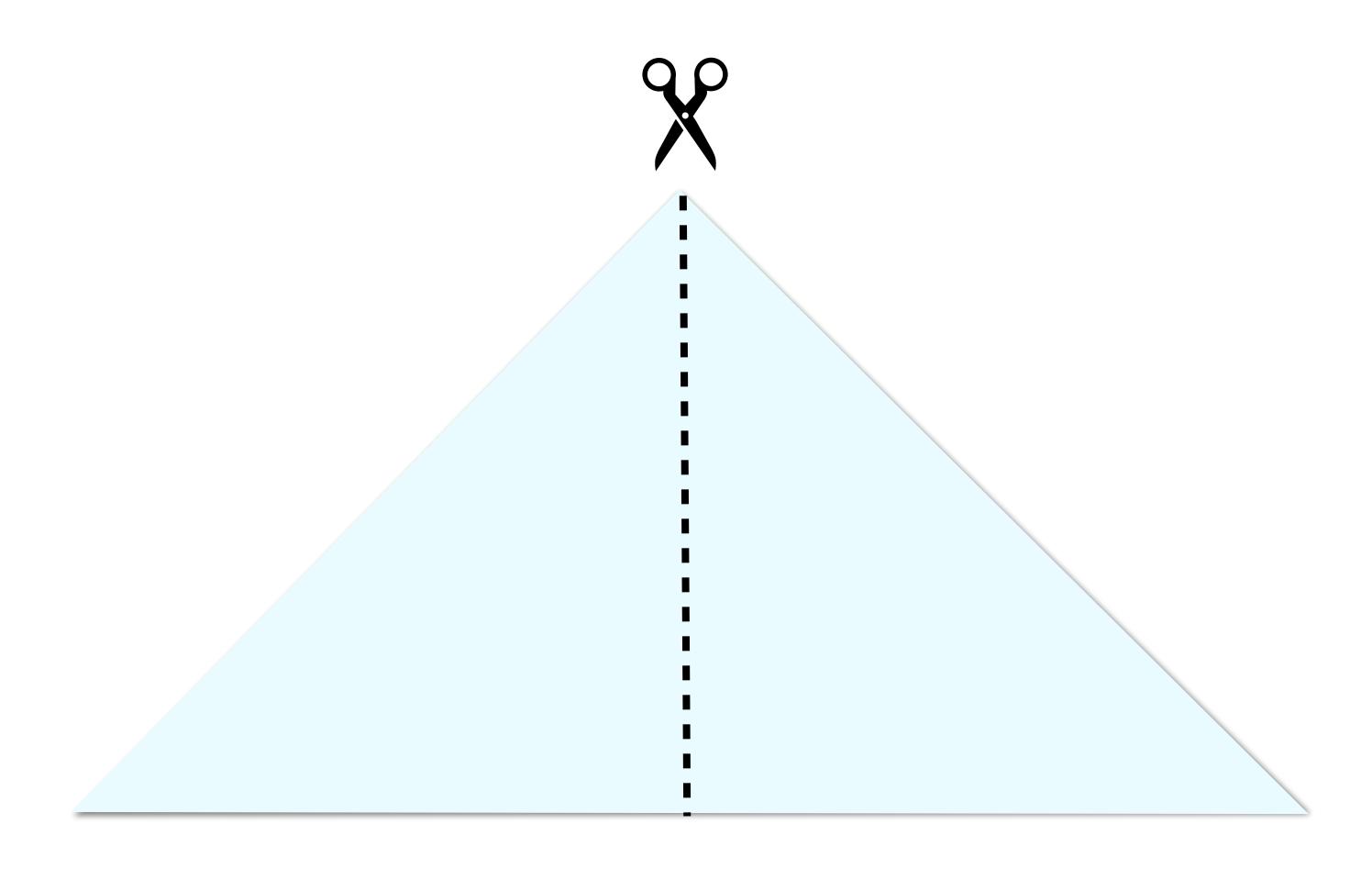


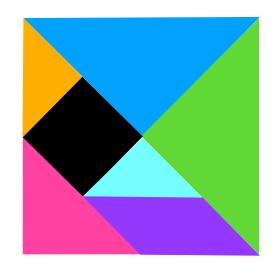
Fold the trapezoid so it creates a triangle and a parallelogram Cut along the crease



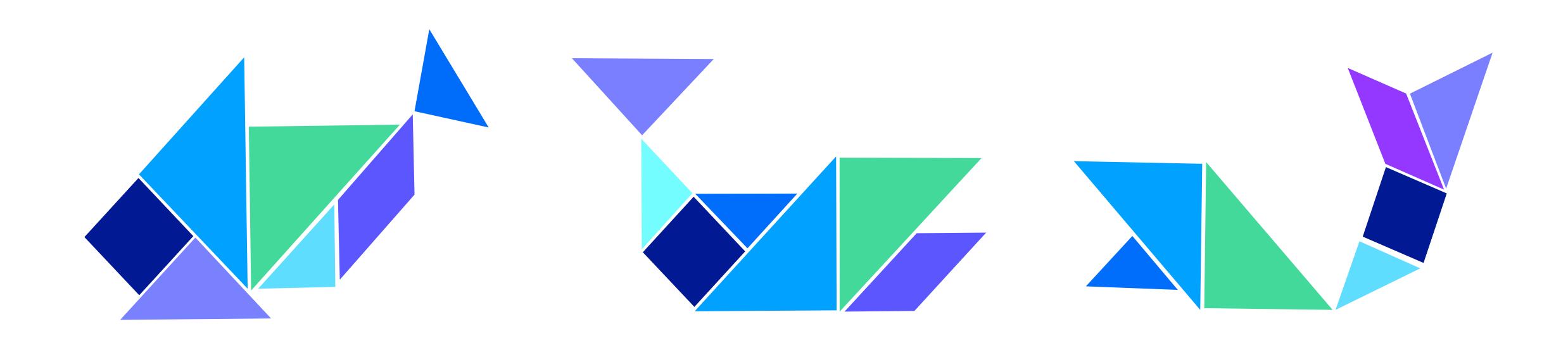


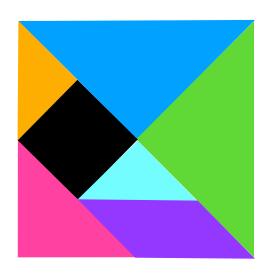
Fold the large remaining triangle in half Cut along the crease



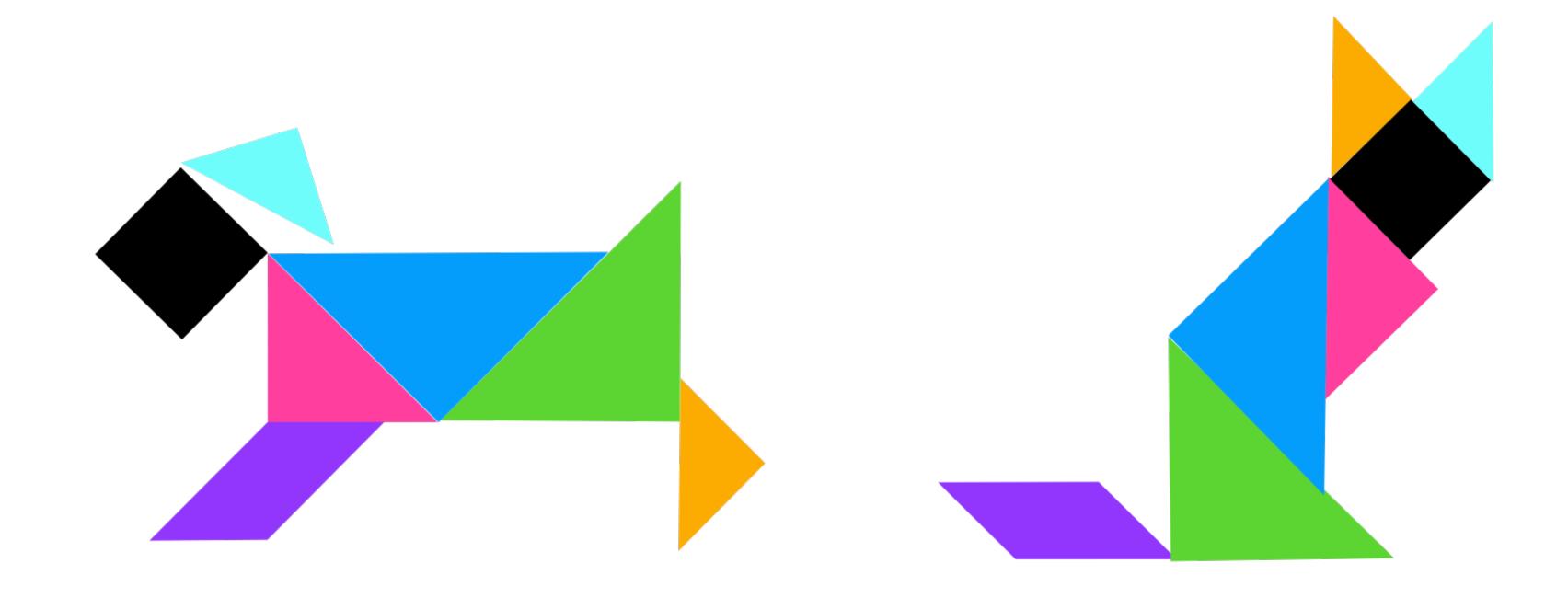


Try one of these designs Make a design of your own Share your creation: https://bit.ly/3qJdCpl





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To think about:

Would you try this with children? What ages?

What math did we use?

Share your creation: https://bit.ly/3qJdCpl

Challenges for later:

Explore shapes you can make with tangrams

Reconstruct the square

Visit www.earlymathca.org/tangrams