

Gallery Tour

Line Master 1 (Assessment Master)

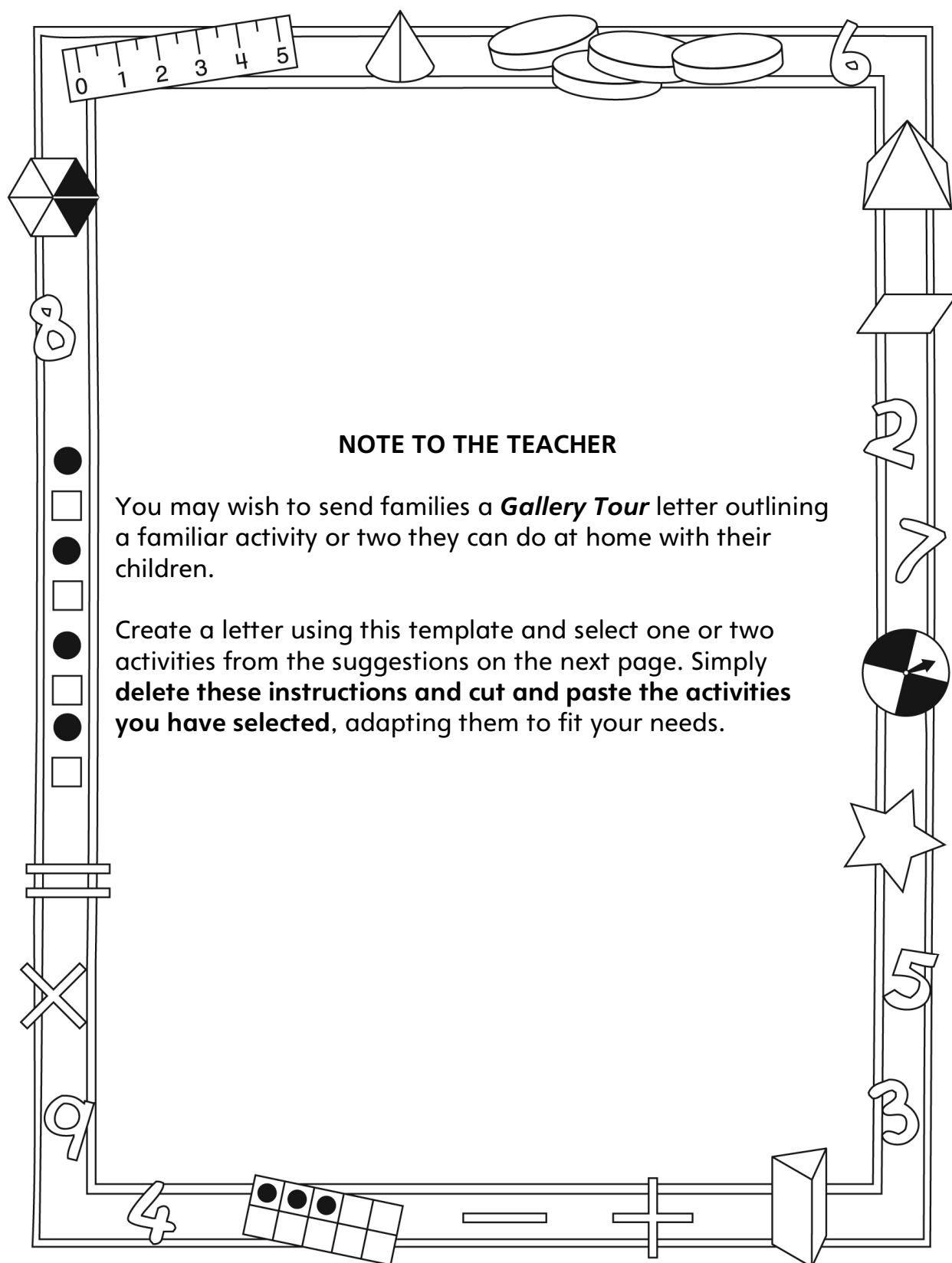
Name: _____

| Describe and Compare Transformations | Not observed | Sometimes | Consistently |
|--|--------------|-----------|--------------|
| Identifies 2-D shapes that have symmetry | | | |
| Identifies lines of symmetry | | | |
| Constructs and completes 2-D symmetrical designs | | | |
| Describes and performs transformations (slides, flips, turns) | | | |
| Identify, Describe, and Compare 2-D Shapes | | | |
| Names 2-D shapes within an image | | | |
| Describes and compares properties of 2-D shapes (number of sides and angles) | | | |
| Identifies and compares lines and angles | | | |

Strengths:

Next Steps:

Connecting Home and School Line Master 2-1



Connecting Home and School

Line Master 2-2

Dear Family:

We have been working on **Gallery Tour**, which engages children in conversations, investigations, and activities that help to develop their understanding of the big math idea that “Shapes and solids can be transformed in many ways.” Particular focus is placed on identifying, describing, and comparing 2-D shapes. Try this activity at home with your child.



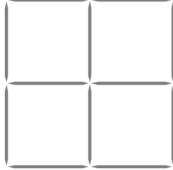
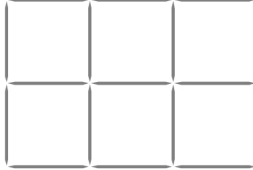
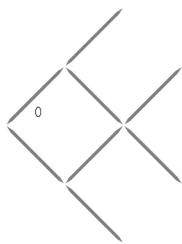
Reading the Story: Ask your child to share what he/she finds to be the most interesting painting in each gallery. Discuss whether you agree with the curator’s choices. Refer to pages 22–23 and talk about how you would arrange the art. Ask: **How would you group the art into different rooms?** Then, consider where the painting on page 24 belongs.



Symmetry Search: We are looking for symmetry and creating a class gallery. Encourage your child to search your home for examples of symmetry. Have your child draw, photograph, and/or list what he/she finds, and bring these findings to add to our exhibit by (date).



Toothpick Puzzles: Enjoy solving these 2-D shape puzzles with your child. Talk about the number of sides, angles, and shapes in the puzzle before moving or removing any toothpicks. Then, talk about what changed when you reach a solution. Together, create your own toothpick puzzle. We look forward to solving it!

| | | |
|---|---|--|
|  |  |  |
| Take away 2 toothpicks so that there are only 3 squares. | Take away 6 toothpicks so that there are only 2 squares. | Move 3 toothpicks so that the fish swims in the other direction. |

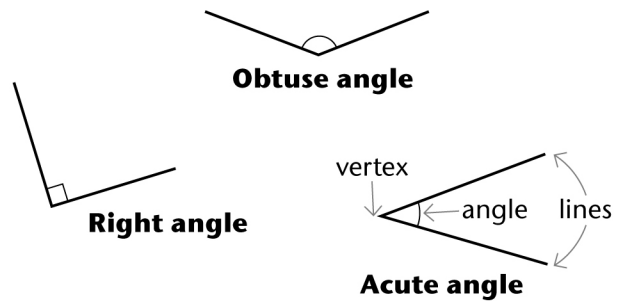


Sincerely,

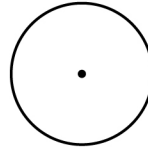
Gallery Tour Math Mat

Line Master 3

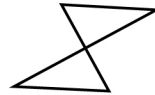
angle: an angle is formed when 2 straight lines meet at a common point, called a vertex.



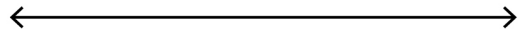
circle: a 2-D shape formed by all the points that are the same distance from a point called the centre.



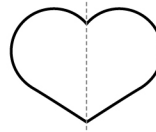
closed figure: a 2-D shape that begins and ends at the same point.



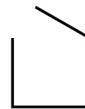
line: a line is always straight and continues endlessly in opposite directions.



line of symmetry: an imaginary line that divides a 2-D shape into 2 halves that match exactly when folded over one another. A shape can have more than one line of symmetry.



open figure: a 2-D shape in which at least one line segment is not connected at an endpoint.



polygon: a closed figure formed by line segments.



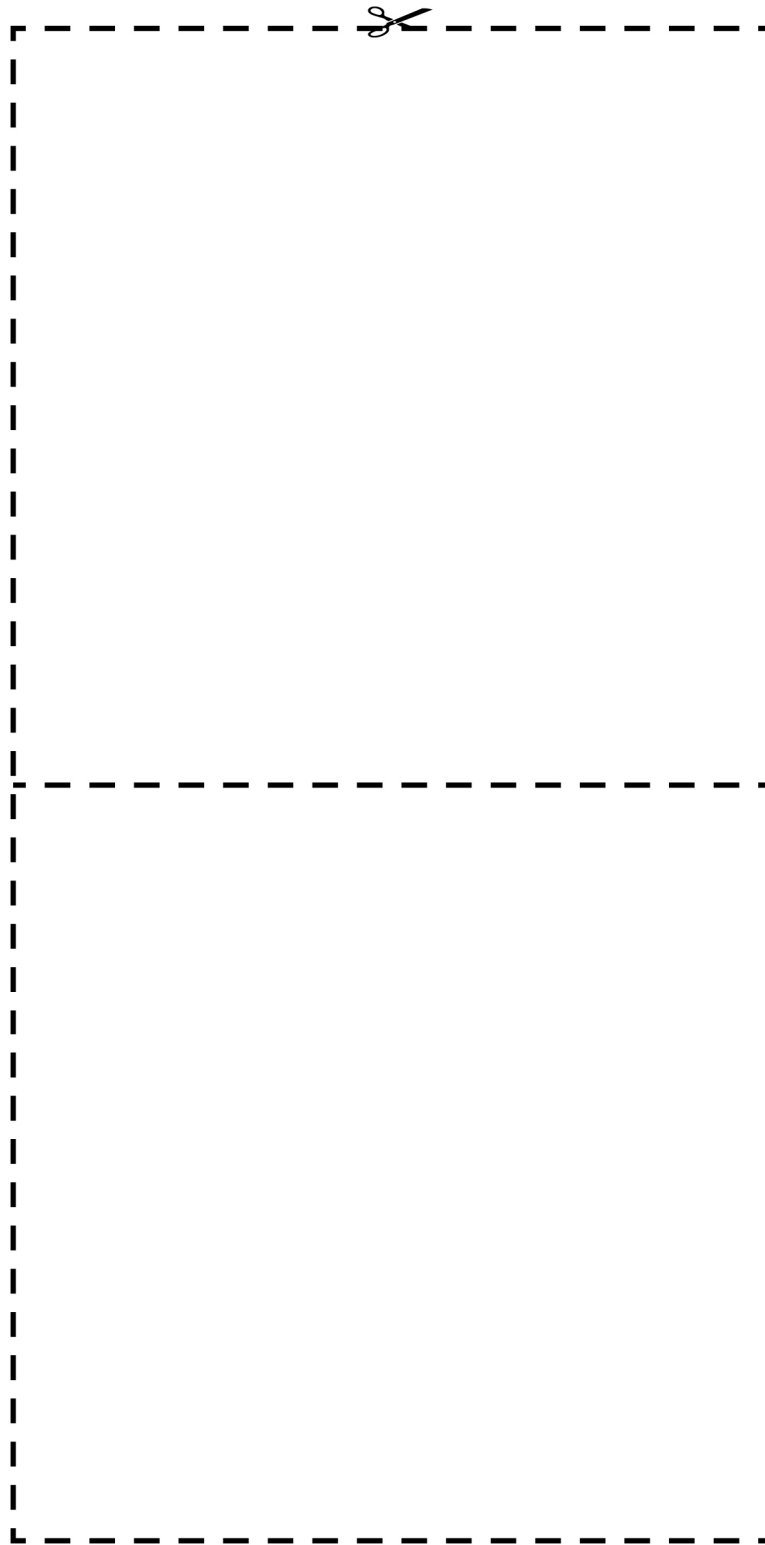
Polygons



Not polygons

Symmetry Surrounds

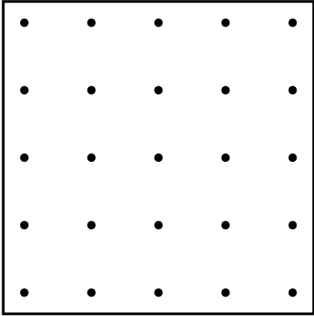
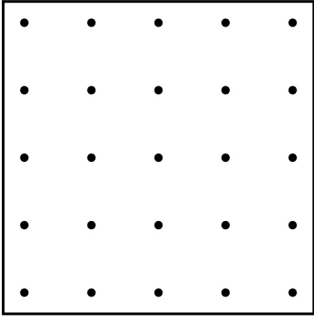
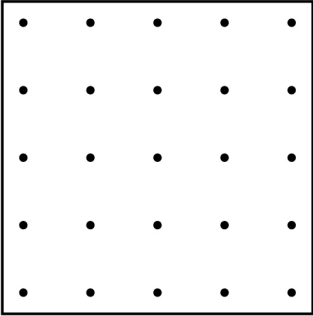
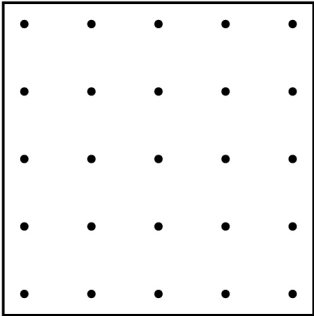
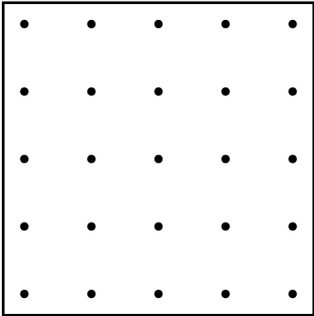
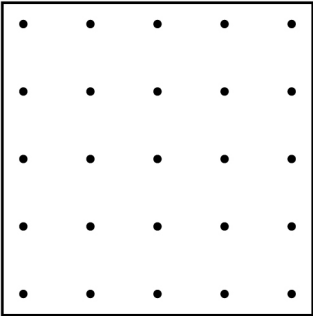
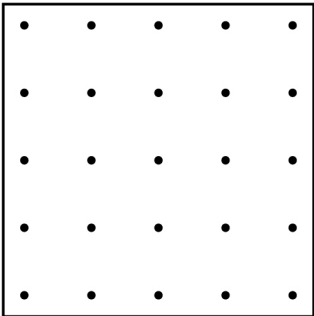
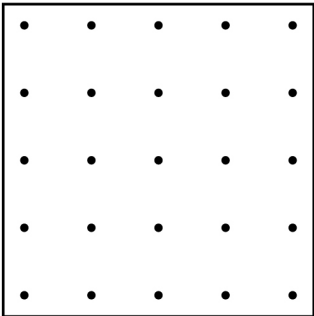
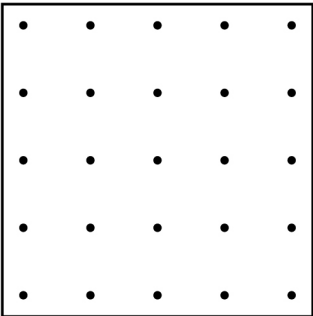
Line Master 4



Geoboard Shapes

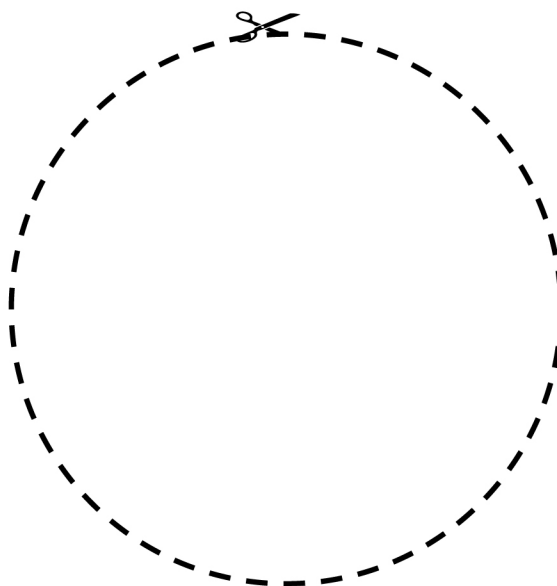
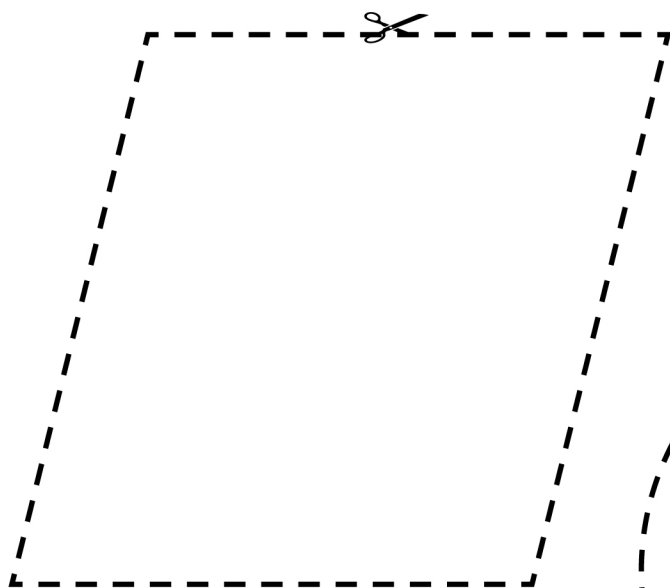
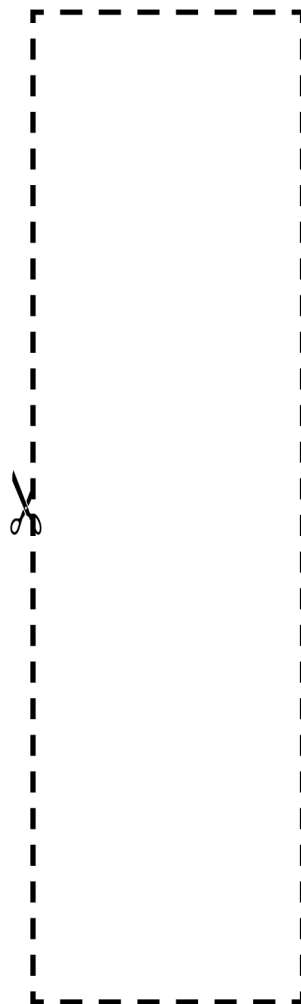
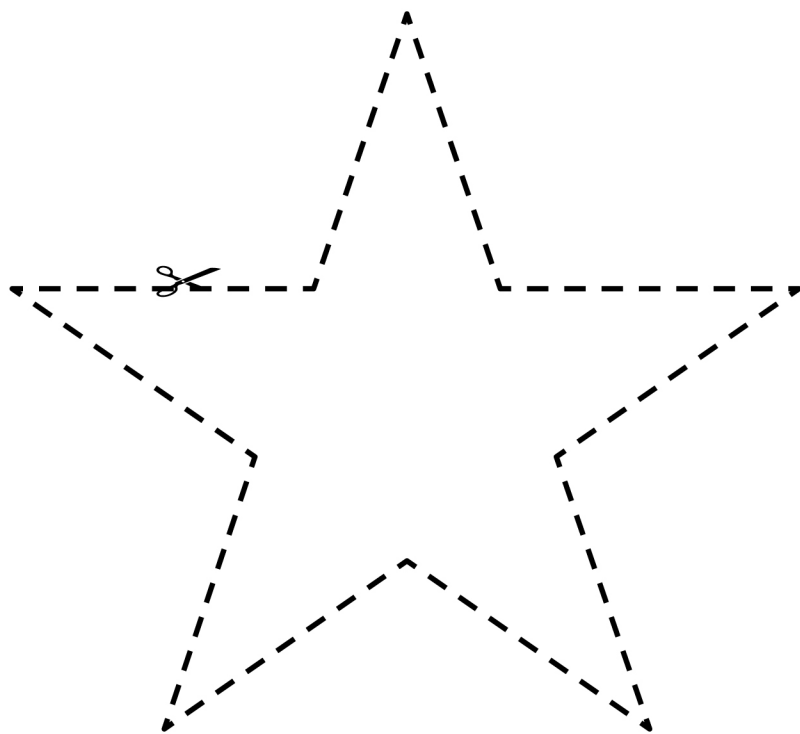
Line Master 5

Name: _____

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|---|---|---|
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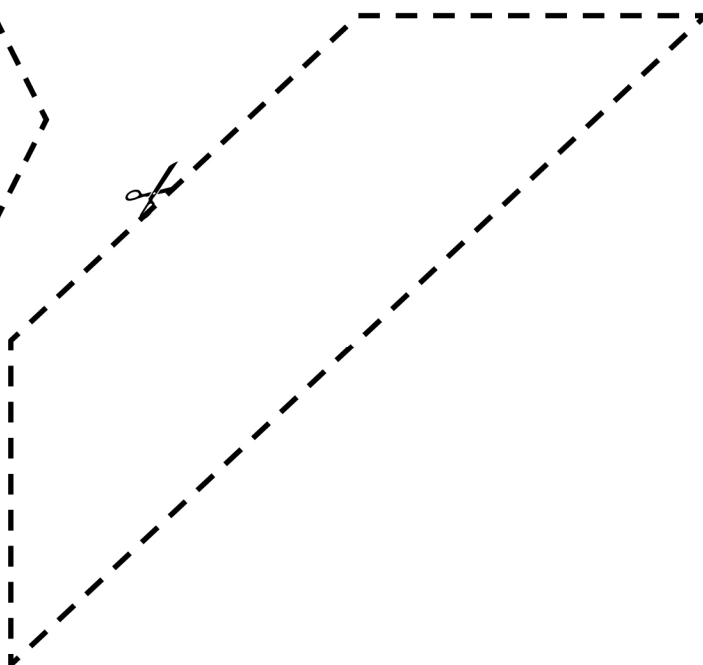
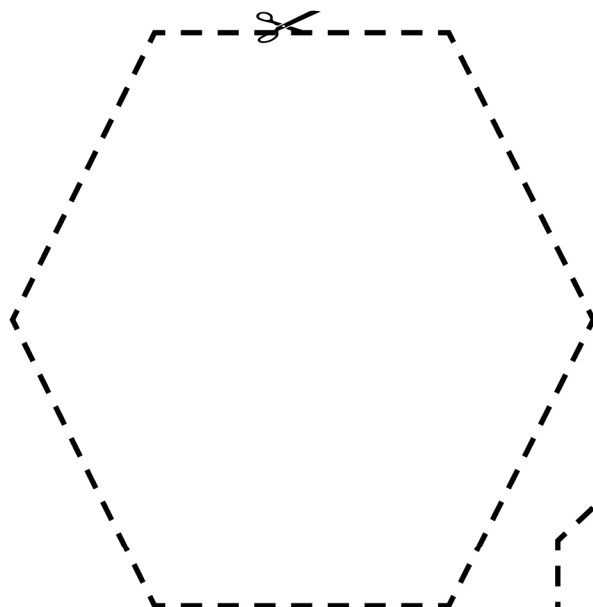
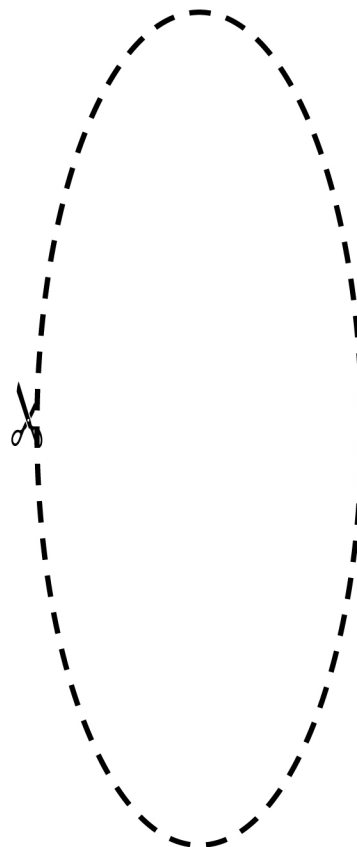
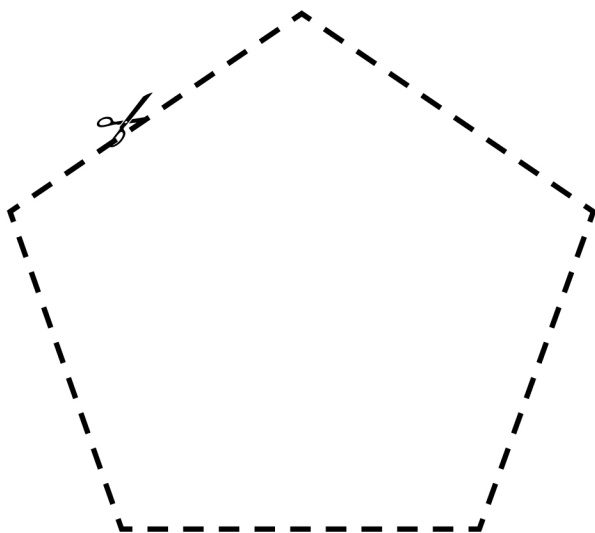
Geometric Shapes

Line Master 6-1



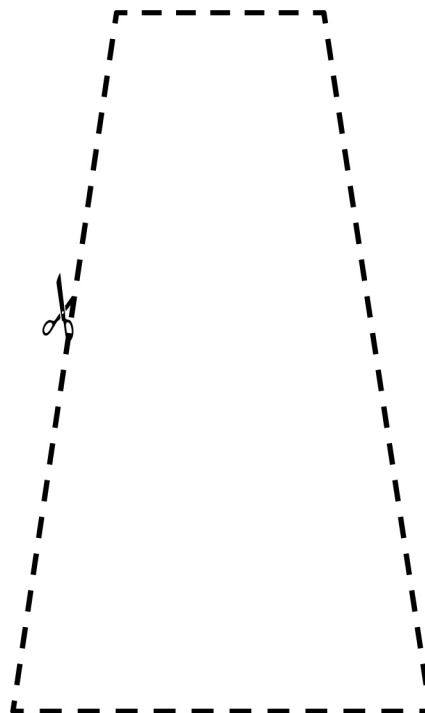
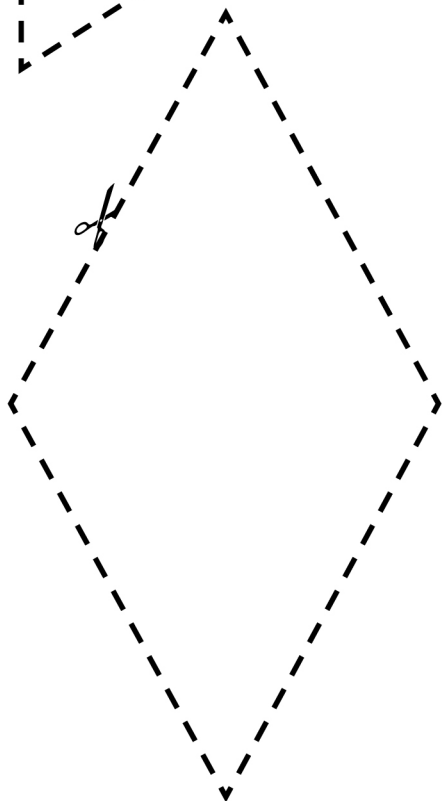
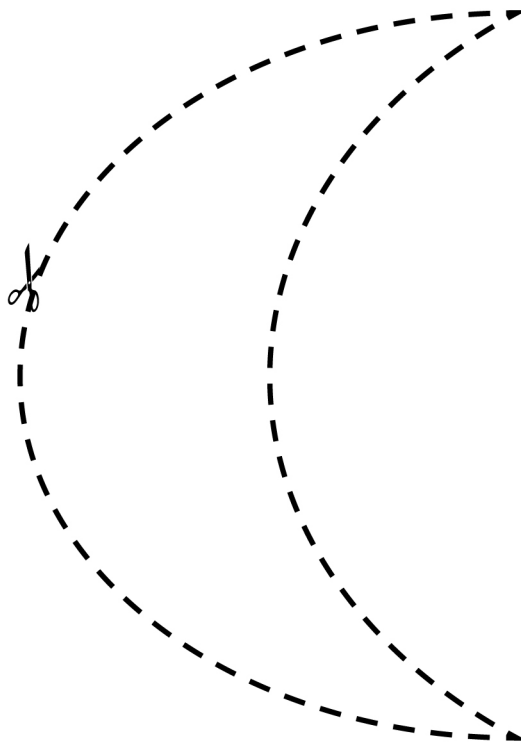
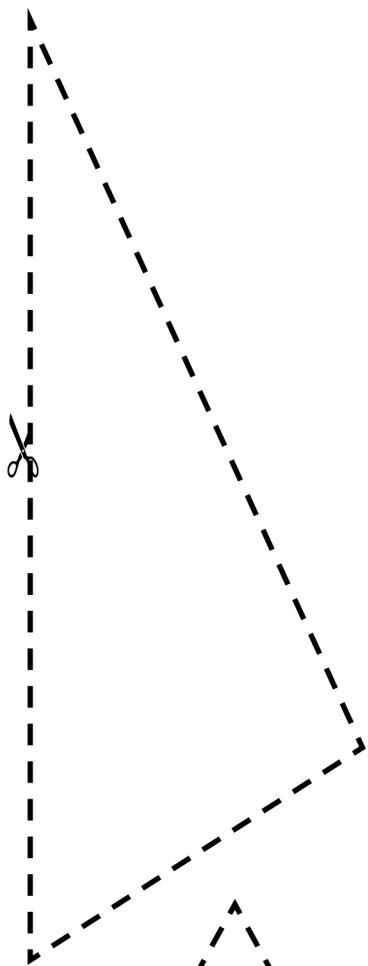
Geometric Shapes

Line Master 6-2



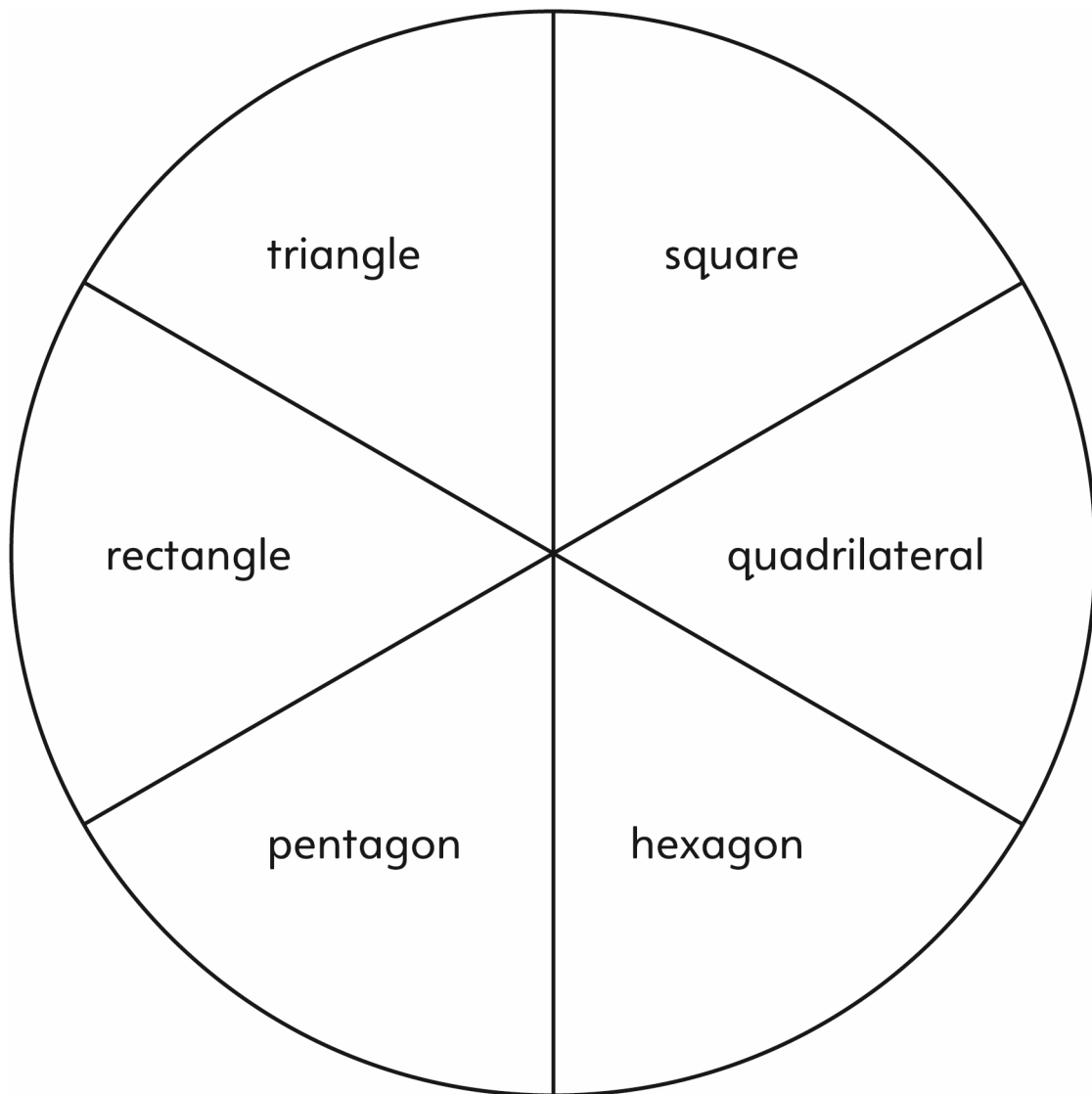
Geometric Shapes

Line Master 6-3



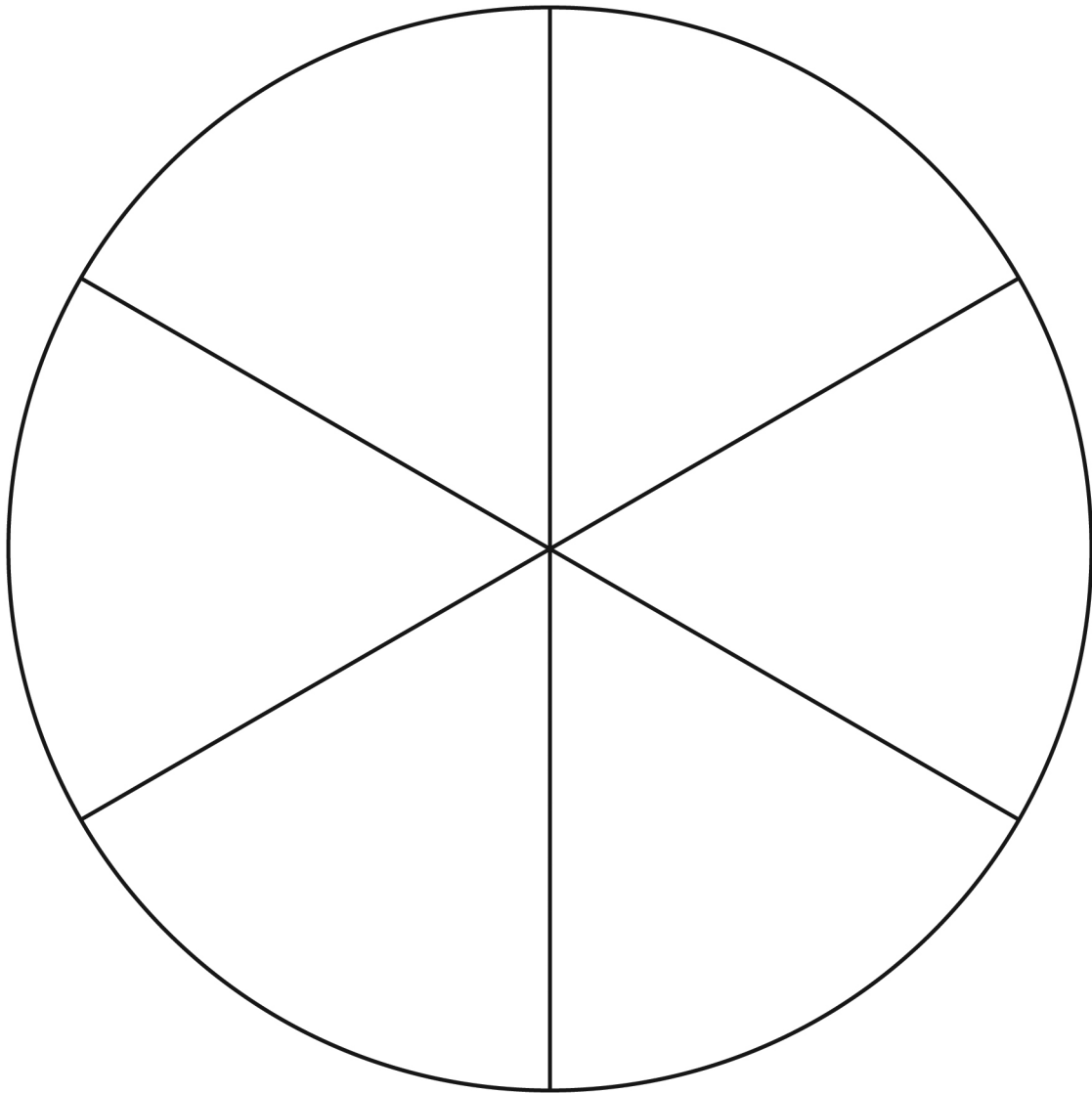
Spinner

Line Master 7-1



Spinner

Line Master 7-2



Shape Solutions

Line Master 8-1



What shape can you make that has

5 sides and 2 right angles?



What shape can you make that has

4 sides and 0 right angles?



What shape can you make that has

3 sides and 0 right angles?



What shape can you make that has

6 sides with 2 sides that are the same length?



What shape can you make that has

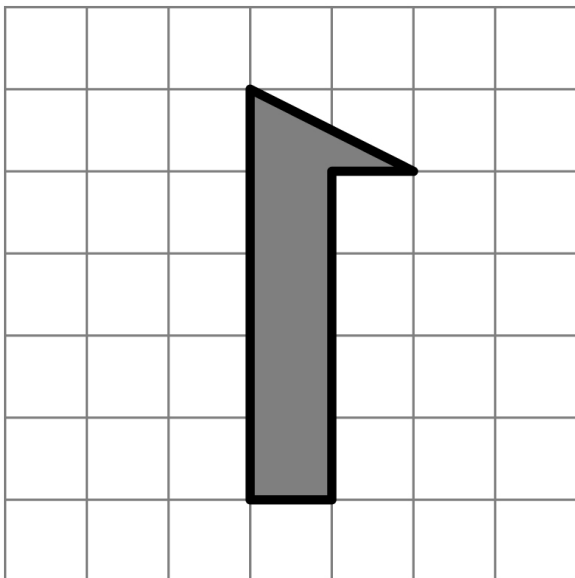
6 sides with 1 right angle?



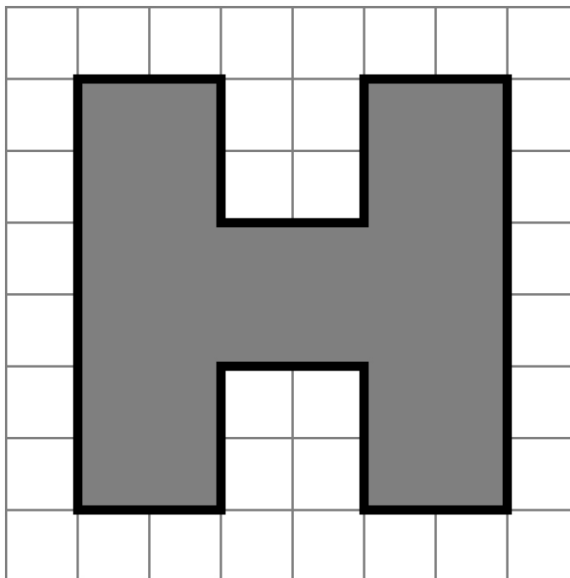
Shape Solutions

Line Master 8-2

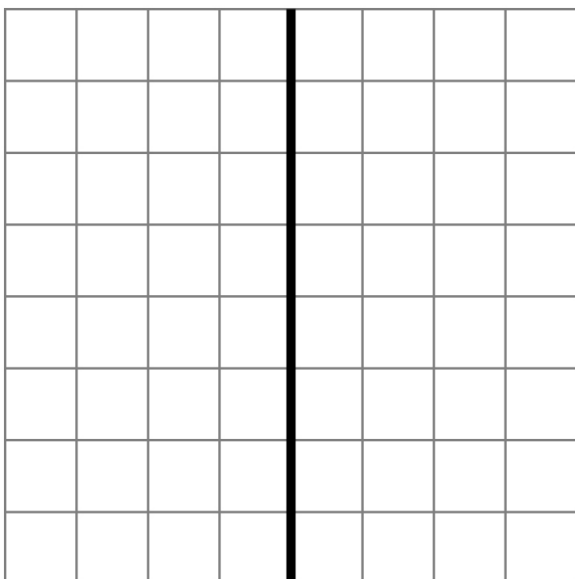
✂ Flip and draw this arrow.



✂ Add lines of symmetry to this H.



There is a line of symmetry. Use it to make a symmetrical image. Include at least 2 squares and 2 triangles.



Draw as many lines of symmetry as you can on each shape.

