

The Math Tales of **MATHIAS**

Understanding Geometry and Shapes



Created For Kids Grades K-3

written by Dr. Marco Walder



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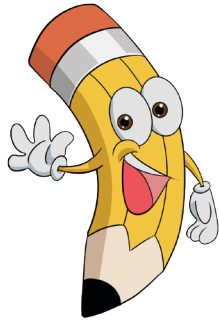
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The Math Tales of Mathias

After a relaxing vacation on Operation Island, Mathias and his family arrived back home in the city of Mathopolis. On the way home from the airport, Mathias eagerly shared his vacation experience with his entire family. Mathias's mom and dad were happy Mathias enjoyed the vacation and seemed to be growing to love math. Mathias was still excited from all the fun and math lessons he had with Adding Addison on Operation Island. He felt confident about being able to do his best this year in Dr. No Solution's class this upcoming school year. With one week left before school started, Mathias wanted to take his last week to rest and review the math skills he learned this summer while on his math journeys.

The family arrived at their home and immediately got out of the car to head to the comforts of their own rooms and beds. As they

entered, Mathias's mom asked Mathias to go check the mail and bring in any mail which was left in the mailbox while they were on vacation.

Mathias walked outside and suddenly a dark cloud appeared over his house. Mathias looked up thinking a possible thunderstorm was on the way, so he hurried to the mailbox to grab the mail. As Mathias went to the mailbox, he noticed the mailbox was shaped differently than before. The size of the mailbox began to change mysteriously. Thinking he was just seeing things and exhausted from the trip, Mathias ignored the strange size and shape of the mailbox. Mathias opened the mailbox and reached inside to pull out the mail. When Mathias pulled the mail out of the mailbox, he noticed the different colors, shapes,

and sizes of all the envelopes which were in the mailbox. Feeling a little dizzy, Mathias slowly walked back inside to escape the upcoming storm and gave his mom the mail. Looking somewhat tired, Mathias's mom asked him if everything was okay. Mathias said he was just tired from the plane ride home and headed up to his room to take a quick nap.



Mathias

His mom said, “Okay Mathias, go get you some rest and we will talk later.”

Mathias walked upstairs and jumped in his bed. As he laid back, he looked over to the left at his window and saw his curtains open. As he looked out his window, he noticed the dark cloud was still over his house, however the thunderstorm he expected had not arrived. Mathias got up and slowly closed the curtains. Still puzzled about the dark cloud over his house, Mathias jumped back in bed and fell fast asleep. After three hours passed, Mathias awoke feeling refreshed and ready to enjoy the rest of his day. Mathias hopped out of bed and went to open his curtains to see if the dark cloud was still over his house. When Mathias opened the curtains, not only was the dark cloud still over his house, Mathias saw a variety of shapes and objects moving around high in the sky. This startled Mathias, and he immediately began to call out for Grandma Faith. To Mathias’s surprise, there was no answer. In fact, the entire house was unusually quiet. Mathias walked to his bedroom’s door to head downstairs, and as he got close to the door, the door gradually opened by itself. Mathias looking mystified cautiously walked out



Mr. Scribble

his bedroom door into the hallway. As he turned left to go down the hallway towards Grandma Faith's room, he noticed the walls of the hallway were black. He also noticed the tiles on the hallway floor were different sizes and colors. Mathias, now very confused, began to get scared because this was something he had never seen before.

Suddenly, a white rectangular shaped letter floated down softly from the top of the hallway ceiling into Mathias' hands. The letter had Mathias' name written in red block letters on the front of it. Mathias carefully opened the letter and the letter read, "Believe me, you can do anything, even math for Dr. No Solution's class." Mathias began to remember these are the words of Grandma Faith, and a huge smile appeared on his face. Mathias said to himself, "I must be dreaming again, and I am about

to go on another wonderful math adventure." Mathias quickly turned around, and to his surprise waiting by his bedroom door on the floor was his trusty backpack. Above his backpack floating in the air was Mr. Scribble, the special pencil Grandma Faith gave him.

Mathias put on his backpack, looked at Mr. Scribble, and said he was



Dr. No Solution

excited and ready to learn more math. Mr. Scribble began to happily float down the hallway. Mathias did not know what to do so he followed Mr. Scribble down the dark hallway. The floor seemed to be moving with each step Mathias took. The floor was oddly shaped and filled with different objects, shapes, and colors. These features began attracting Mathias' curiosity. Mathias and Mr. Scribble arrived at another door in the hallway which was ten times bigger than any door he had ever seen before. The door was long, wide, and very high. As Mathias began to open the door very slowly, he saw the same dark cloud, unusual shapes, and colorful objects that hovered over his house earlier in the day. As he opened the huge door, he heard a voice from afar say, "Come on in friend; it is you and I to the very end." Mathias, still feeling confused, cautiously walked in the door and towards the voice he heard.

As Mathias walked closer to the voice, he saw a kid around his age sitting next to a round shaped ball. The kid said, "Hello Mathias, I have been



Adding Addison

waiting for you. My name is Geometric George and I am friends with Adding Addison. Do you remember her?" Mathias cheerfully said, "Yes Adding Addison is my friend! Is she here?" Geometric George said, "Yes, she is here; however, on this math journey, you are going to travel with me my friend." Mathias said, "Where are we going?" Geometric George said, "We are going on a math journey to learn and understand geometry and shapes." Mathias looking worried and confused asked, "Why are we going on a journey to learn about geometry and shapes?" Geometric George said, "You need to learn about geometry and shapes to pass Dr. No Solution's class this year." Mathias exclaimed, "You know Dr. No Solution!" Geometric George said, "Everyone knows the about the evil Dr. No Solution." Mathias said, "I did not see geometry and shapes in the letter Dr. No Solution sent



Geometric George

to me this summer." Geometric George said, "No, he didn't. He does not include this skill in the letter because he uses this skill as a way to trap you and keep a dark cloud over you throughout the year." Geometric George asked Mathias, "Did you see a dark cloud and tons of different colored shapes

and objects over your house?” Mathias, emphatically said, “Yes I did!” Geometric George said, “That is Dr. No Solution sending you a warning. Grandma Faith, who knows Dr. No Solution very well, told your friend Adding Addison to help you on this math journey. Adding Addison reached out to me because she knows I am great at geometry and shapes. Dr. No Solution tried to do the same thing to me last year. Adding Addison and I almost did not pass his class because of it.” So, Adding Addison and I decided to help you learn and understand geometry and shapes. We are going to make sure you are ready when he introduces this skill to you. Together we will help you understand geometry and shapes, and believe me, you can do anything, even geometry and shapes in Dr. No Solution’s math class.

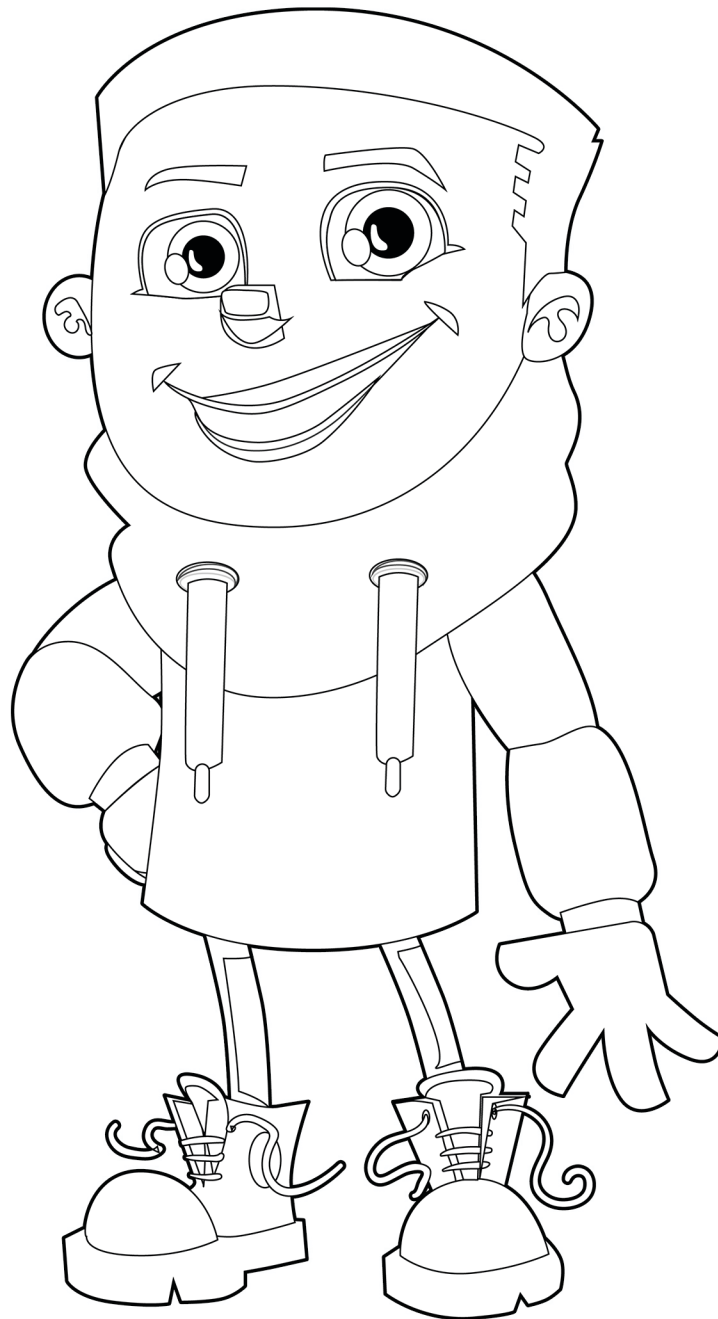
Excited and interested, Mathias said, “Okay Geometric George let’s go learn about geometry and shapes.” Geometric George, Mathias, and Mr. Scribble began to head down the long dark road on their journey to understand geometry and shapes.



Grandma Faith

FUN TIME

Give Geometric George a new look. Grab your colors and have fun!



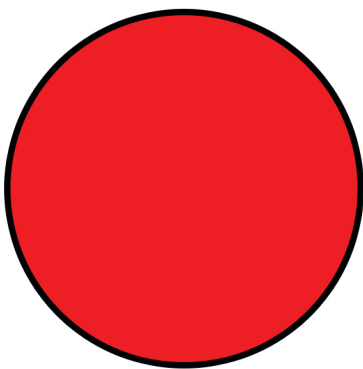


2D-SHAPES

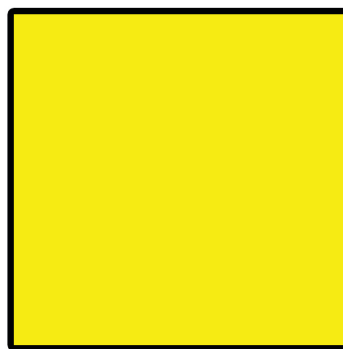
2D-Shapes are shapes with two dimensions, such as width and height. An example of a 2D shape is a rectangle or a circle. 2D shapes are flat and cannot be physically held, because they have no depth; a 2D shape is completely flat.



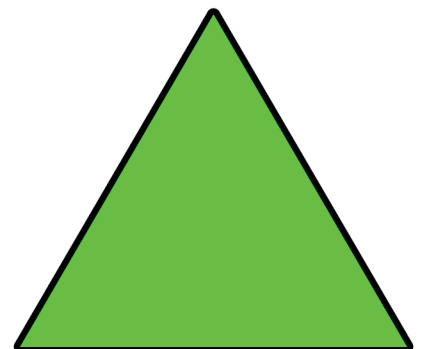
Take a look at these examples of 2D-Shapes:



CIRCLE



SQUARE

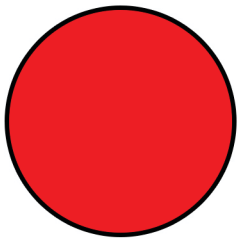


TRIANGLE

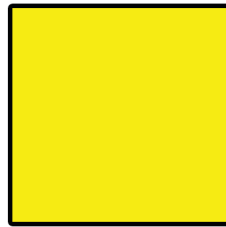


SHAPES

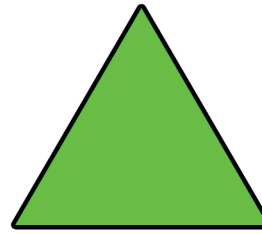
Below are the 2D-Shapes we will be focusing on. Geometric George would like for you to review each shape.



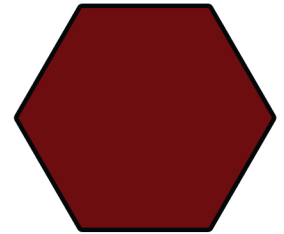
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SQUARE



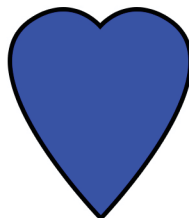
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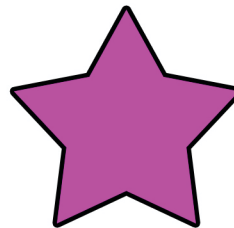
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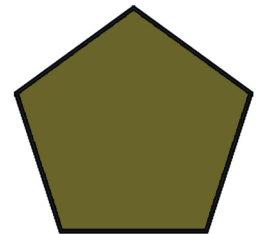
RECTANGLE



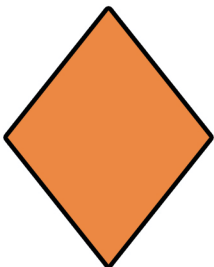
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STAR



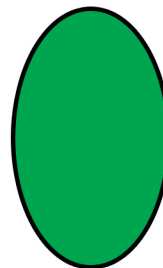
PENTAGON



DIAMOND



TRAPEZOID



OVAL

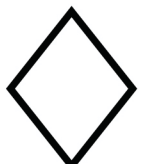
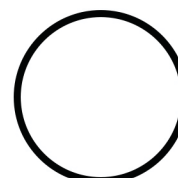
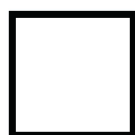
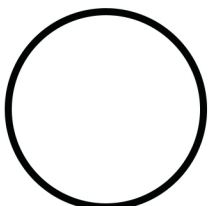
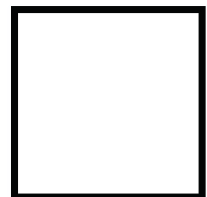
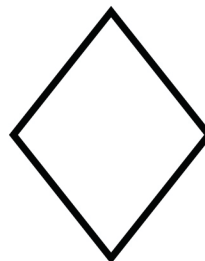
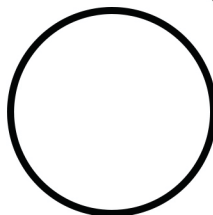
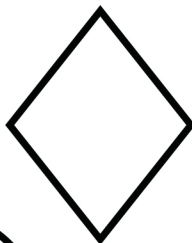
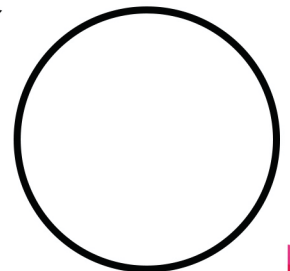
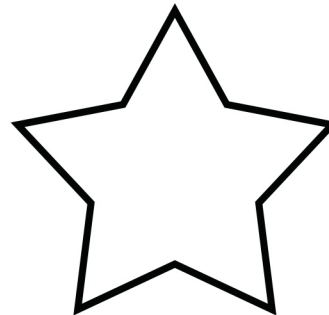
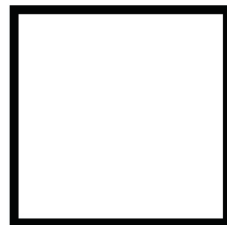
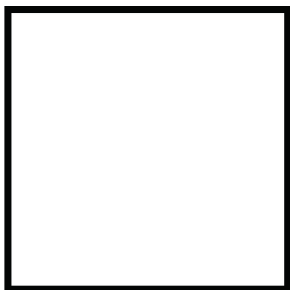
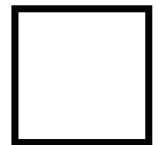
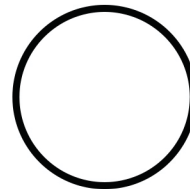
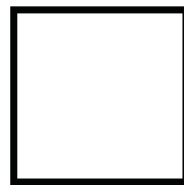
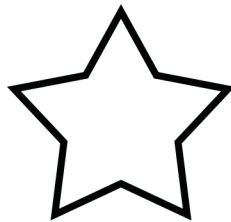
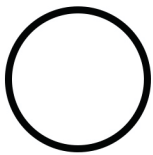
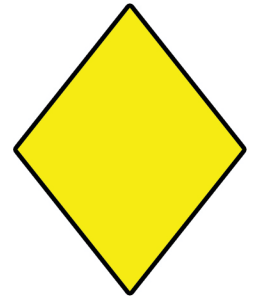
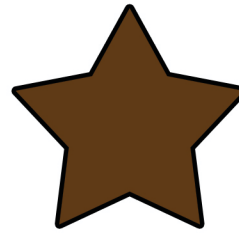
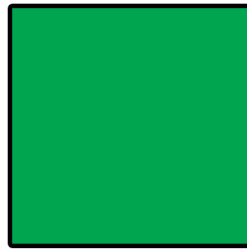
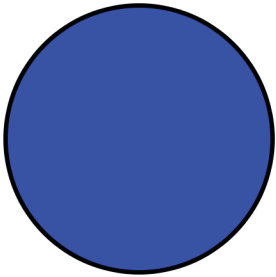


PARALLELOGRAM



Coloring Shapes

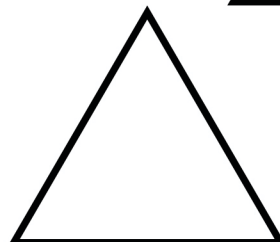
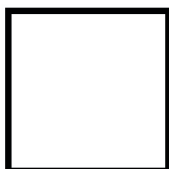
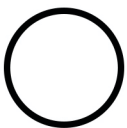
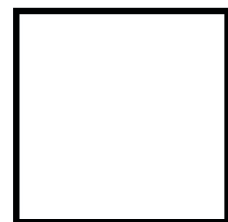
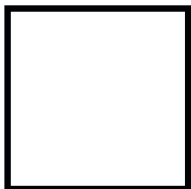
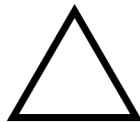
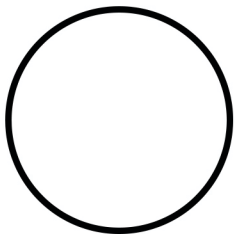
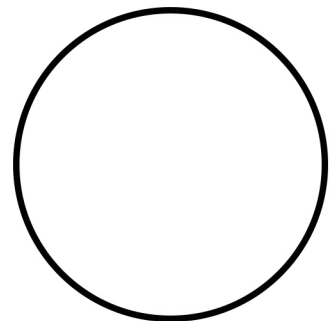
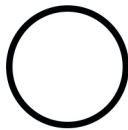
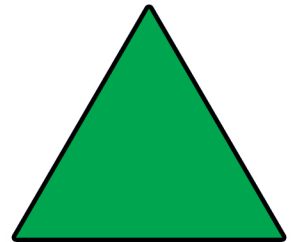
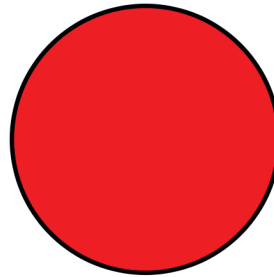
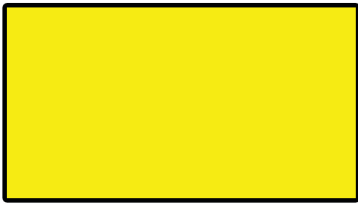
Geometric George would like for you to color the shapes. Color the squares green, color the circles blue, color the diamonds yellow, and color the stars brown.





Coloring Shapes

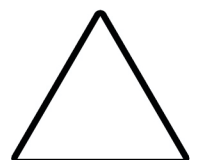
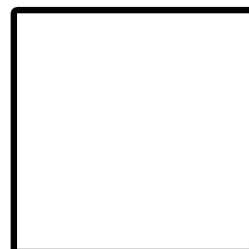
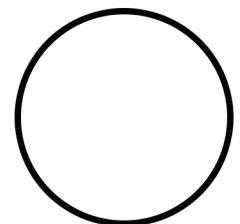
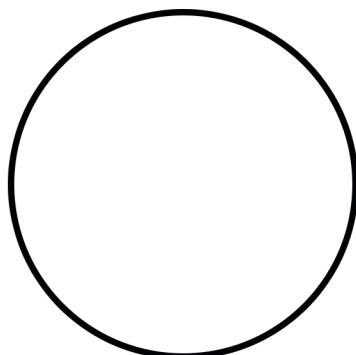
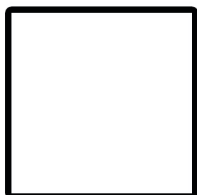
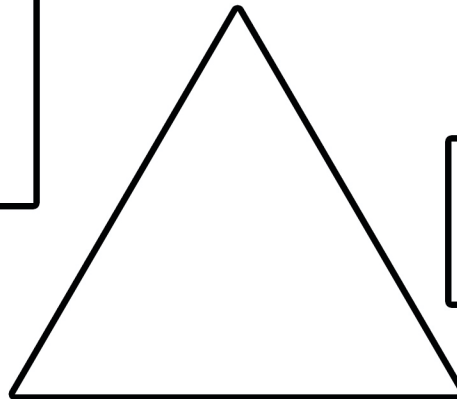
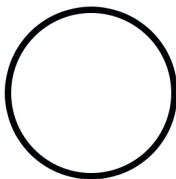
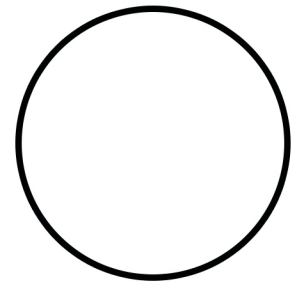
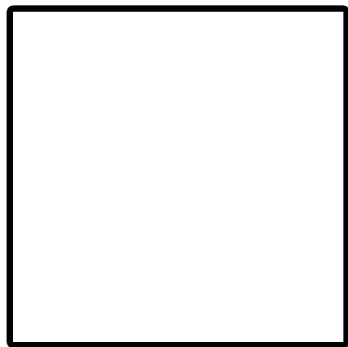
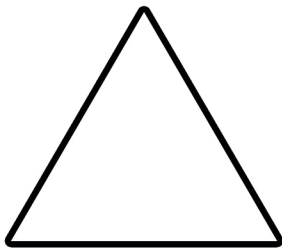
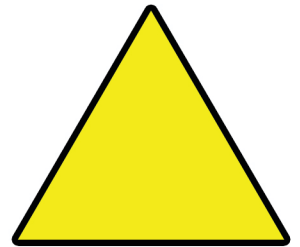
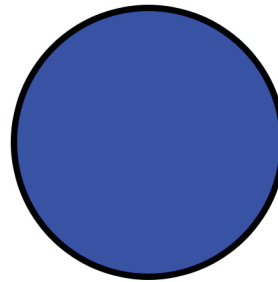
Geometric George would like for you to color the shapes. Color the rectangles yellow, color the squares brown, color the triangles green and color the circles red.





Coloring Shapes

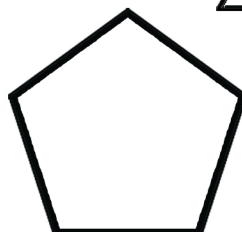
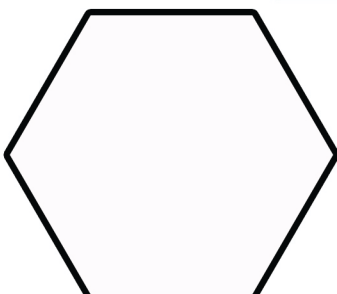
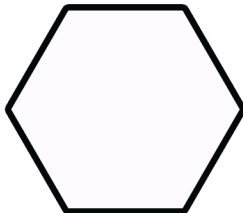
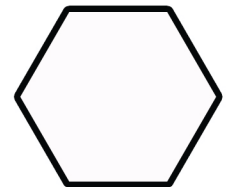
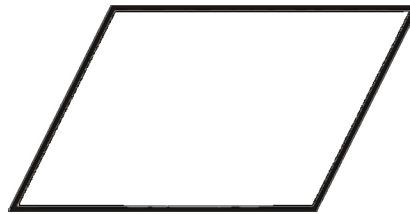
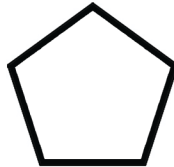
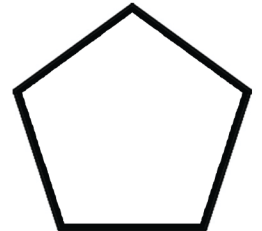
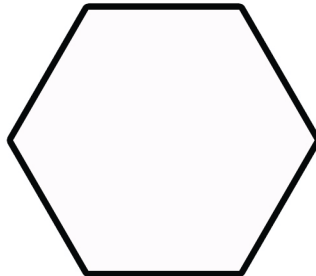
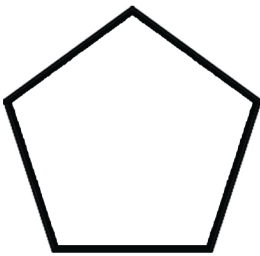
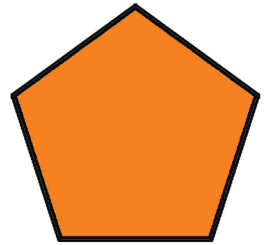
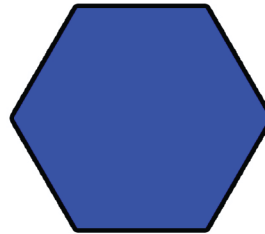
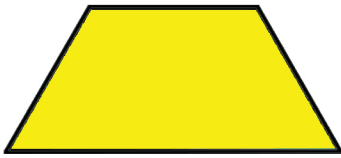
Geometric George would like for you to color the shapes. Color the rectangles green, color the squares red, color the circles blue and color the triangle yellow





Coloring Shapes

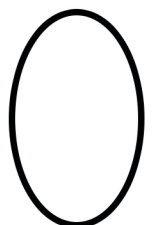
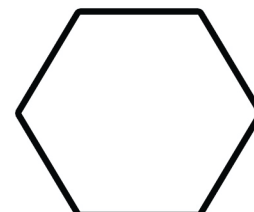
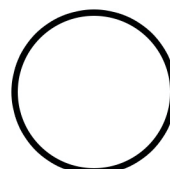
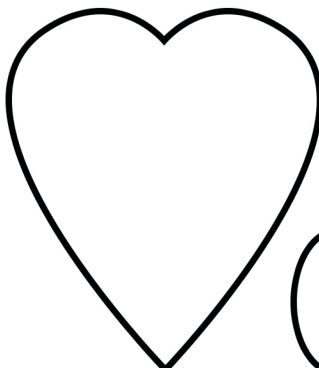
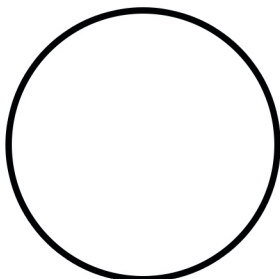
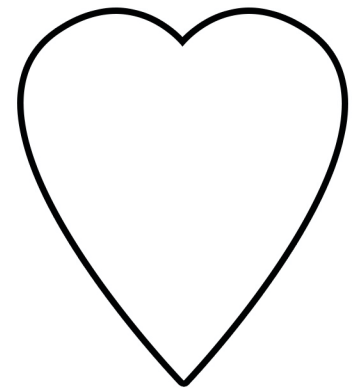
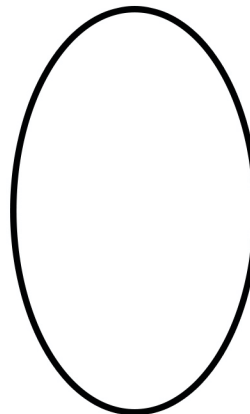
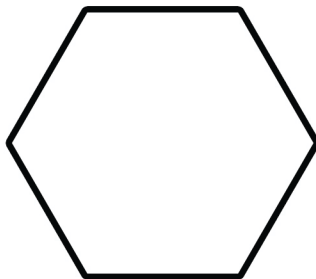
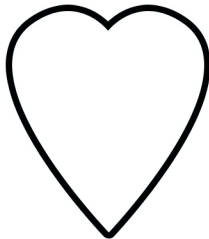
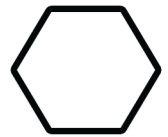
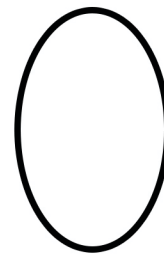
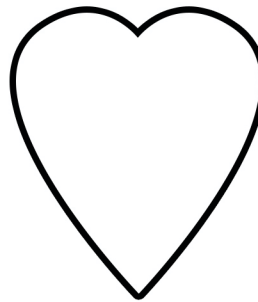
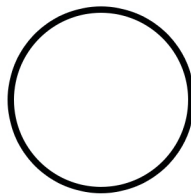
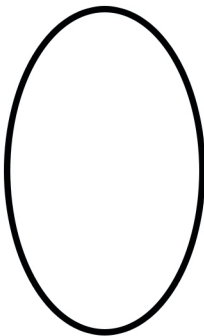
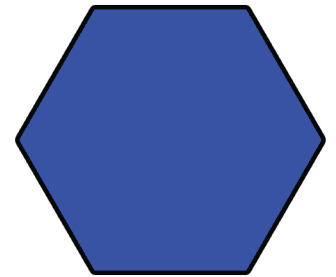
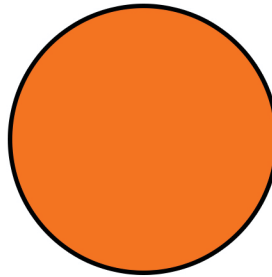
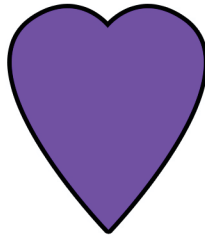
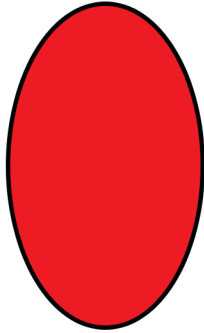
Geometric George would like for you to color the shapes. Color the parallelograms red, color the trapezoids yellow, color the pentagons orange and color the hexagons blue.





Coloring Shapes

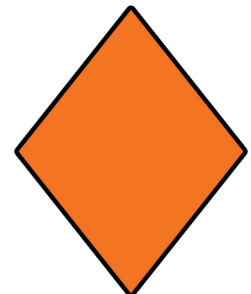
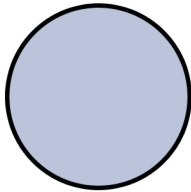
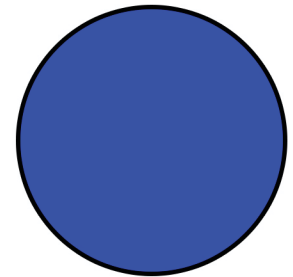
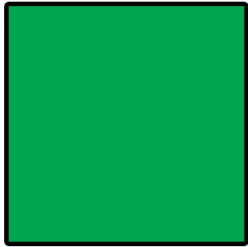
Geometric George would like for you to color the shapes. Color the ovals red, color the hearts purple, color the circles orange and color the hexagons blue.





Matching Shapes

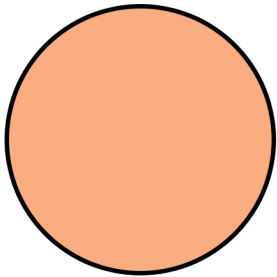
Geometric George would like for you to draw a line and match the similar shapes.



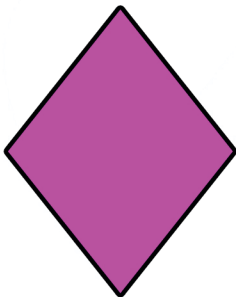


Matching Shapes

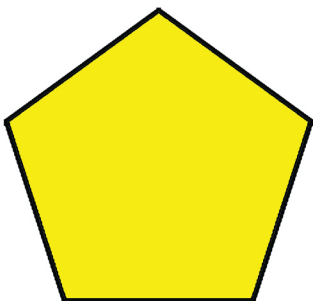
Geometric George would like for you to draw a line and match each shape to the correct name.



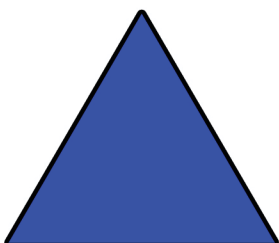
Triangle



Pentagon



Circle



Diamond



Matching Shapes

Geometric George would like for you to draw a line and match each shape to the correct name.



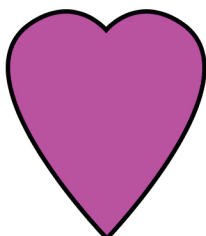
Parallelogram



Heart



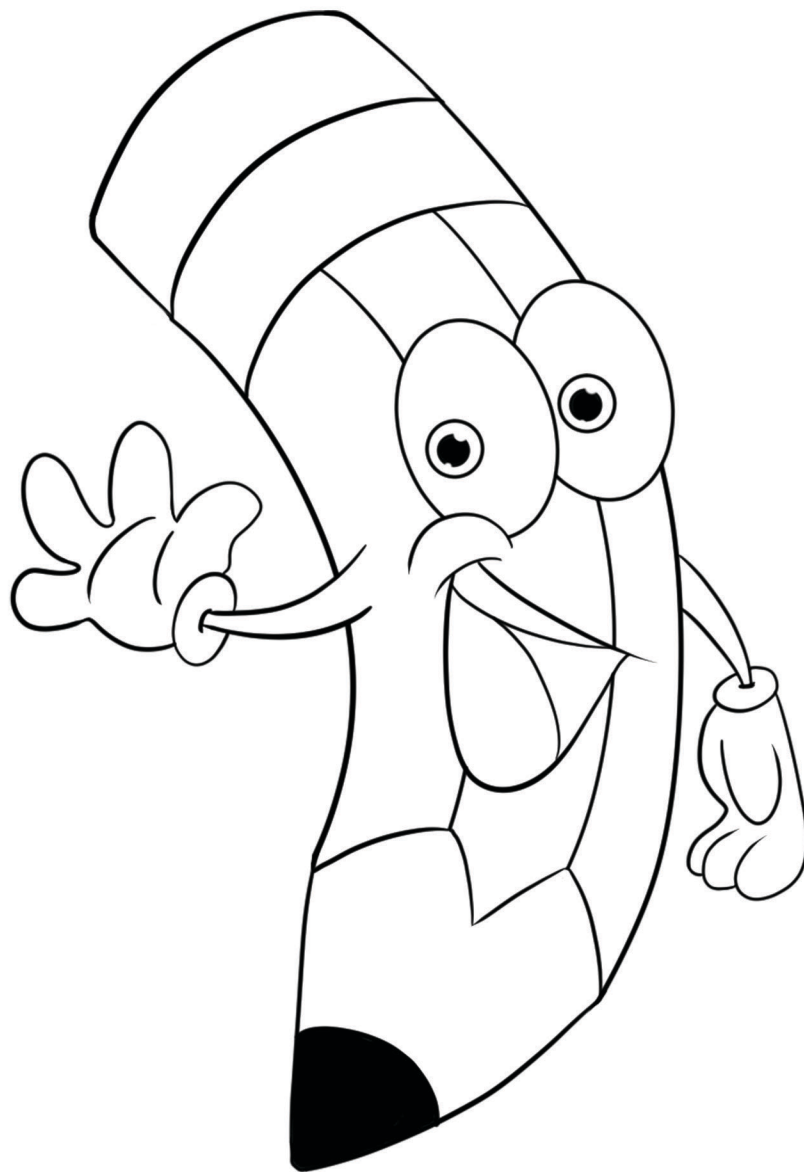
Rectangle



Star

FUN TIME

Give Mr. Scribble a new look. Grab your colors and have fun!





Drawing Shapes

Geometric George would like for you to draw each shape in the box.



Square



Circle



Rectangle



Triangle



Pentagon



Hexagon