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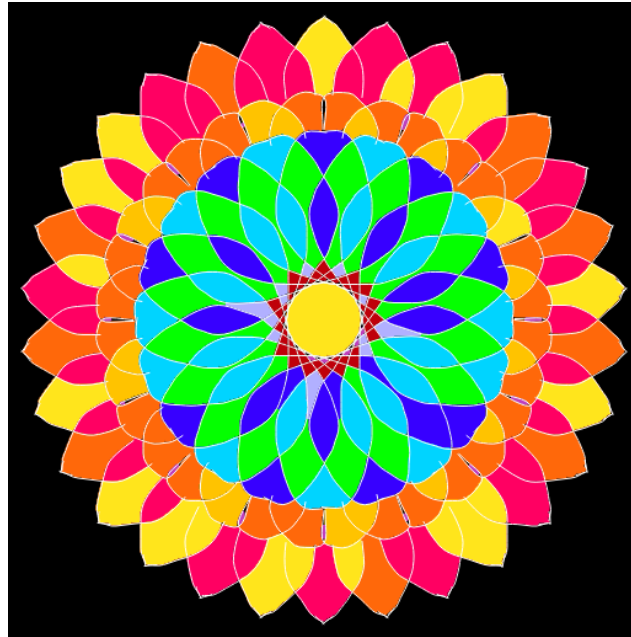BSCS1

Output #1

1. "My Mandala (Flower)"

2. A Reflection on
   Documentary on Decoding the Secret Patterns of Nature – Fibonacci Sequence and the Golden Ratio & Pi. And **Places You Won't Believe the Golden Ratio & Fibonacci Sequence Appears.**
   - After watching the video, I realized that in our daily life we actually using math (Managing time, Budgeting, etc.) and there is always mathematical explanation in everything that we saw in our house like what is said in the video for example the windows, tables, gadgets, etc. or even in the food for example is apple.

1. What new ideas about mathematics did you learn?
- Mathematics makes it possible to solve problems that have never been solved before. Mathematics help so many people, for example: It makes possible for scientist to make and understand new discoveries, and for the engineers, they can use those discoveries to create new technology.

3. What is it about mathematics that might have changed your thoughts about it?

- I realize that when we try to solve a mathematical problem we are analyzing and trying to understand the given problem and we didn't even notice but we are doing the same thing in real life, by solving the problem we should analyze then start understand the situation so that you can solve it.

4. What is most useful about mathematics for humankind?
- Math helps us think analytically and have better reasoning abilities (helps us have better problem-solving skills). Analytical and reasoning skills are important because they help us solve problems and look for solutions. Math is all around us.

A Reflection on **Fractals** and **Mandelbrot Fractal Zoom**

1. What new ideas about mathematics did you learn?
- In the video it says that fractals are important and the new idea that I learned is that it can help some people especially the people that has a huge contribution, because it inspired scientists in many disciplines - including cosmology, medicine, engineering and genetics - and artists and also the musicians too. And when it comes about the fractals, it can be used to capture images of these complex structures.