

Mandala School Newsletter

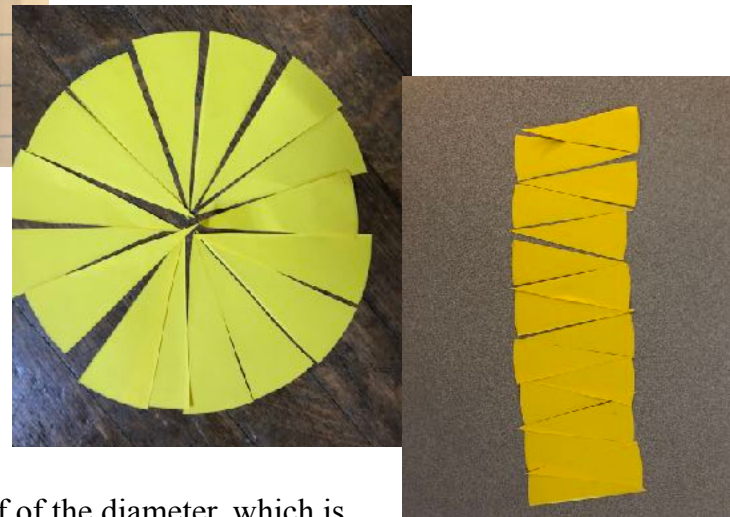
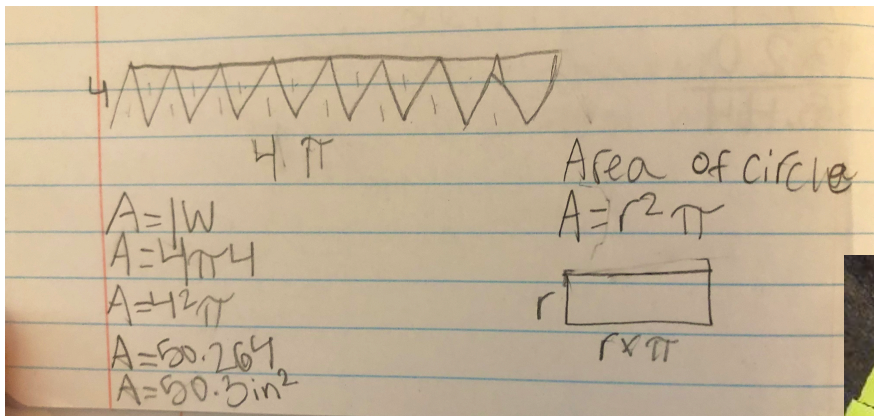
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Georgie & Inti sorting letters, numbers, and symbols

Announcements:

- ❖ No School next week! Enjoy your February break. Classes & after-school yoga resume Monday, February 27th
- ❖ Girls in Engineering program runs February 28th, March 1st, and March 2nd. FREE after school event, register: <https://mandalaschool.org/services/>
- ❖ Mandala Summer Camp registration opens March 3, 2023



In math we have been learning about circles. We tried to find out how to calculate the area and circumference of circles. The circumference is the distance around the circle. You can find the circumference by multiplying the diameter by pi. You multiply by pi because the diameter fits around the circle a pi (3.14...) number of times. The diameter is the distance from one point on the circle, through the middle, to the other side. The radius is half of the diameter, which is the distance from the middle of the circle to any part of the circle.

Finding the area of a circle is difficult because it is round, and has no corners. We decided to cut a circle into pieces and rearrange them into a simpler shape, which ended up being a parallelogram. We then measured the base and height. We found that the height was the same as the radius of our circle. Then we measured the base and found that it was the radius multiplied by pi. To find the area of the parallelogram we multiplied the base times the height, $r \times r \times \pi = r^2\pi$

Here are the formulas we found: $C = \pi d$ and $a = r^2\pi$. (where C is the circumference and a = area).

Our circle had a radius of 4 in. The diameter was 8 in. The circumference was 25.1 in and the area was 50.3 in².

Student of the Week: ELENA!

Elena is an 11-year-old, 5th grade student here at Mandala. We love having Elena as a friend here. She is sweet, intelligent, funny, and artistic. When Elena has free time she likes to practice playing the piano and play outside, especially riding her bike. She started to play the piano during 2021. She said that she was interested in learning an instrument and they had a piano at home so she went with that. Her favorite songs to play are Christmas songs. She also spends some of her time drawing which she is amazing at. She also likes to read and the best books she has ever read were *Out of My Mind* and *Percy Jackson*. Elena loves red pandas, she says that if she was able to own one she would because they are her favorite animal. The coolest place that Elena has visited is France. She describes it to be very different from here because they have more nice places. While there she tried eating pigs feet which she did not enjoy eating.

Group interview written by Sarah & Ama



Students dissected owl pellets from a Barred Owl found at Knox Farm Park.





Above: Millie, Charlotte, and Katelyn crafting on Valentine's Day



Right: Bryce, Graham, & Charlotte play multiplication BINGO in math. They've been learning about factors.

🌟 SPACE! 🪐

This week we've ALL been learning all about space! In the younger group we learned about the moon. We got to eat Oreos after we made the different phases. We talked about the planets too.

In the middle group we got to pick a topic about space to do a project. I, Omunique, picked gravity. Katie picked the moon (see poster below), Elena did asteroids, comets, and meteors. Finn did black holes.

In Earth Science we are working on Kepler's three laws. The first one was about ellipses. As the distance from the sun increases, the period of time to orbit also increases. That's the third law.

By Frankie, Omi, & Ria

