

40 Weeks of Math Challenges

Week 2



These visual math challenges have been created to intrigue and inspire your children. They are designed to be hands on, open-ended inquiries, to challenge them to think deeply about the world around them.

Each week a new set will be released with four levels.

- Preschool
- Years 1/2 (approx. age 6-8)
- Year 3/4 (approx ages 8-10)
- Year 5/6 (approx. ages 10-12)

I hope you enjoy exploring the ideas with your children! The challenges don't require any special resources, however your children will need a 'Math Journal' to record their discoveries. Any notebook will work, but if you can, try to encourage them to use a Grid book.

You are welcome to freely print these cards for your family but please respect our creative copyright and link back to the original file on our web page to share with others. Thanks, Jo

Array

Definition:

Is where items are arranged in rows and/or columns.

1. Look at the picture, what do you notice?
2. Can you tell me how many eggs are in the carton? How do you know? Did you try and count by two's? Practice counting by twos.
3. Find an empty egg carton. Put three eggs in the top row and three egg under those in the bottom row. How many eggs do you have in the egg carton? Can you make another array in the carton with a different amount of eggs?
4. Share a photo of the pattern you have made.



Array

Definition:

Is where items are arranged in rows and/or columns.



1. Look at the picture, what do you notice?
2. What are some different ways that you can count the amount of flowers?
3. Collect 12 items, (flowers, shells, blocks). How many different ways can you arrange them in rows and columns?
4. Show in your journal all the different ways you can make an array with 12. Choose another number. Make an array with that number, see how many different ones you can make!

Array

Definition:

Is where items are arranged in rows and/or columns.

1. I see 2 groups of 3, I also see 3 groups of 2.
2. Go on an array hunt. How many can you find?
3. Draw examples of arrays that you found in your math journal.
4. Take a photo of an array and share it.



Array

Definition:

Is where items are arranged in rows and/or columns.

1. Look at the picture, what do you notice?
2. This is a piece of Land Art that we created in 2021. Each individual square has 10 pieces of stem. How many did we need to finish our creation?
3. Make your own Array Land Art. Explain the numerical connections in your array.
4. Share a photo of the Art you have made.

