

40 Weeks of Math Challenges

Week 14



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

Symmetry- Rotational

Definition:

Is when a shape looks the same when partially turned around the centre point.

1. Look at the picture, what do you notice?
2. Collect some flowers from outside.
3. Spin the flowers around. Notice that they look the same as you turn them.
4. Can you think of other things that look the same as they spin?



Challenge 14

1/2

Symmetry- Rotational

Definition:

Is when a shape looks the same when partially turned around the centre point.

1. Look at the picture, what do you notice?
2. Place a dot at the top of this seed pod. Go around and place a dot every time you see the same shape.
3. How many dots? So how many times could you spin this shape so that it looked the same?
4. Draw examples of other things that look the same as you spin them in your math journal.



Symmetry- Rotational

Definition:

Is when a shape looks the same when partially turned around the centre point.

1. Look at the picture, what do you notice?
2. Place a dot at the top of this seed pod. Go around and place a dot every time you see the same shape.
3. How many times a shape looks the same as it is turned is called it's ORDER. Can you tell the Order of rotational symmetry for this seed pod?
4. Draw examples of other things that have rotational symmetry in your math book.



Challenge 14

5/6

Symmetry- Rotational

Definition:

Is when a shape looks the same when partially turned around the centre point.

1. Look at the picture, what do you notice?
2. Place a dot at the top of this seed pod. Go around and place a dot every time you see the same shape.
3. How many times a shape looks the same as it is turned is called it's ORDER. Can you tell the Order of rotational symmetry for this seed pod?
4. Draw examples of other things that have rotational symmetry in your math book. Write their order.

