

# 40 Weeks of Math Challenges

## Week 15



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

# Odd/Even

Definition:

A number that can be broken into two even groups is **EVEN**. A number that cannot be broken into two even groups is **ODD**

1. Look at the picture, how many chickens are there?
2. Could you break the group and put the same amount of chickens into two pens? How many chickens would be in each pen.
3. Could you put the same amount of black and brown ones in each pen?



## Challenge 15

1/2

# Odd/Even

Definition:

A number that can be broken into two even groups is **EVEN**. A number that cannot be broken into two even groups is **ODD**

1. Look at the picture, how many legs does this spider have?
2. Arachnids have 8 legs, insects have 6 legs. Why do you think animals have an even number of legs?
3. Draw an imaginary animal with an odd number of legs in your math journal.



# Odd/Even

Definition:

A number that can be broken into two even groups is EVEN. A number that cannot be broken into two even groups is ODD

1. Look at the picture, how many petals on this flower?
2. Go outside and count the petals on different flowers, do more have an even or odd number of petals?
3. Make a table in your math journal with an even column and an odd column. List the flowers in the correct column for their petal number.



## Challenge 15

5/6

# Odd/Even

Definition:

A number that can be broken into two even groups is EVEN. A number that cannot be broken into two even groups is ODD

1. Look at the picture, this Kangaroo Paw's green petals will split and the 3 will become 6.
2. 3 is odd.  $3+3=6$ , 6 is even. Is the following always true, sometimes true or never true... 'two odd numbers add to give an even number.'
3. Write what you think in your journal, can you draw a picture to illustrate your answer.

