

40 Weeks of Math Challenges

Week 33



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

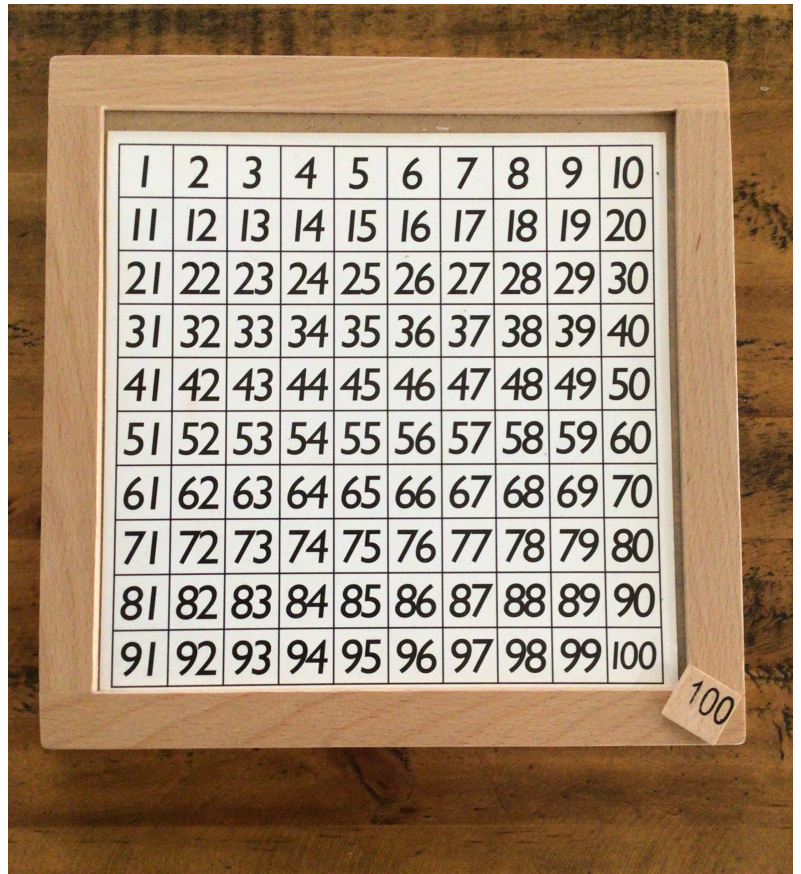
Percentage

Definition:

Parts per hundred.

Symbol %

1. Look at the picture, what do you notice?
2. How much is 100? Can you count to 100?
3. This picture shows all the numbers up to 100. Take some beads and group them into groups of ten. Slide them onto pipe-cleaners. When you have ten lots of ten you have 100.



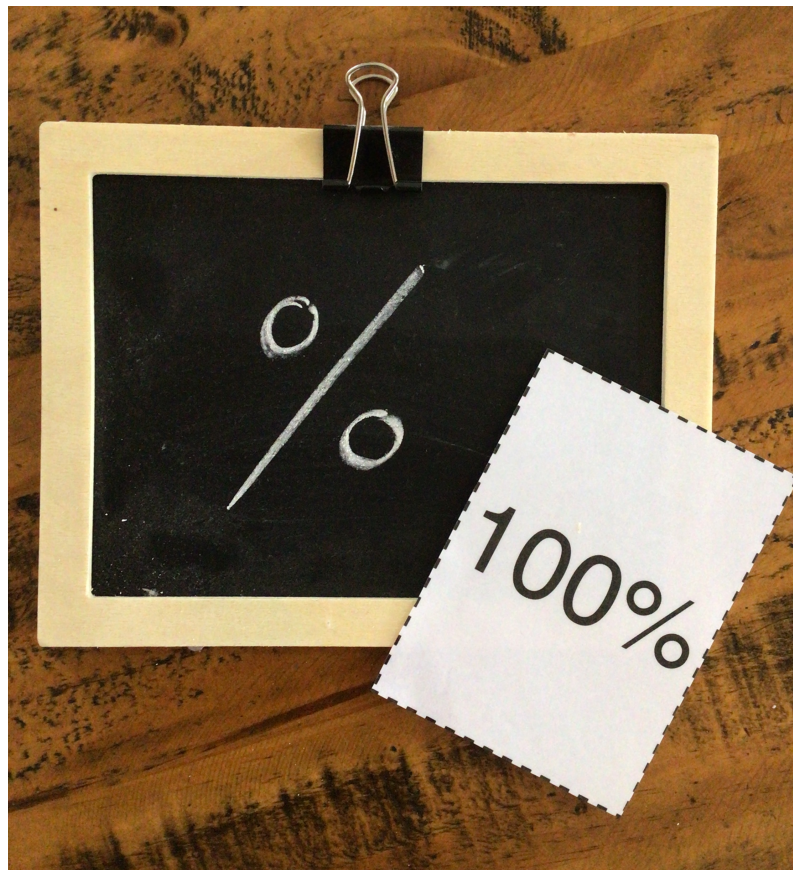
Percentage

Definition:

Parts per hundred.

Symbol %

1. Look at the picture, what do you notice?
2. The symbol of percentage is %. Practice drawing it in your math journal
3. 100% means the full amount. If we were talking in fractions we would say 1 whole. If you were taking a test, it would mean you got all the answers right.
4. Draw a picture in your journal of what 100% of something looks like.



Percentage

Definition:

Parts per hundred.

Symbol %

1. Look at the picture, what do you notice?
2. These percentages are on a wheat-bix box, what do you think they mean?
3. Where else can you find percentages in your home? Look around you, see what you can find.
4. Take a shopping brochure or magazine and cut out any percentages you find. Past them in your math journal.

Ave. Quantity per Serving (dry mix)	% Daily Intake* (when prepared)	Ave. Quantity per 100 g (dry mix)
53 kJ (108 Cal)	7%	1460 kJ (349 Cal)
3.9 g	17%	12.5 g
0.4 g	0.9%	1.3 g
0.1 g	0.8%	0.3 g
20.3 g	9%	65.4 g
0.8 g	9%	2.5 g
3.4 g	11%	11.1 g
81 mg	6%	261 mg
g (50% RDI)*		1.77 mg

Percentage

Definition:

Parts per hundred.

Symbol %

1. Look at the picture, what do you notice?
2. Take some time this week to learn about percentages. You can download free cards from the internet to help you learn to recognise the connections of percentage, fraction and decimal numbers.
3. Describe and draw what you have discovered in your math journal.
4. NRICH has a fun game and printable cards [HERE](#)

