

40 Weeks of Math Challenges

Week 18



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.

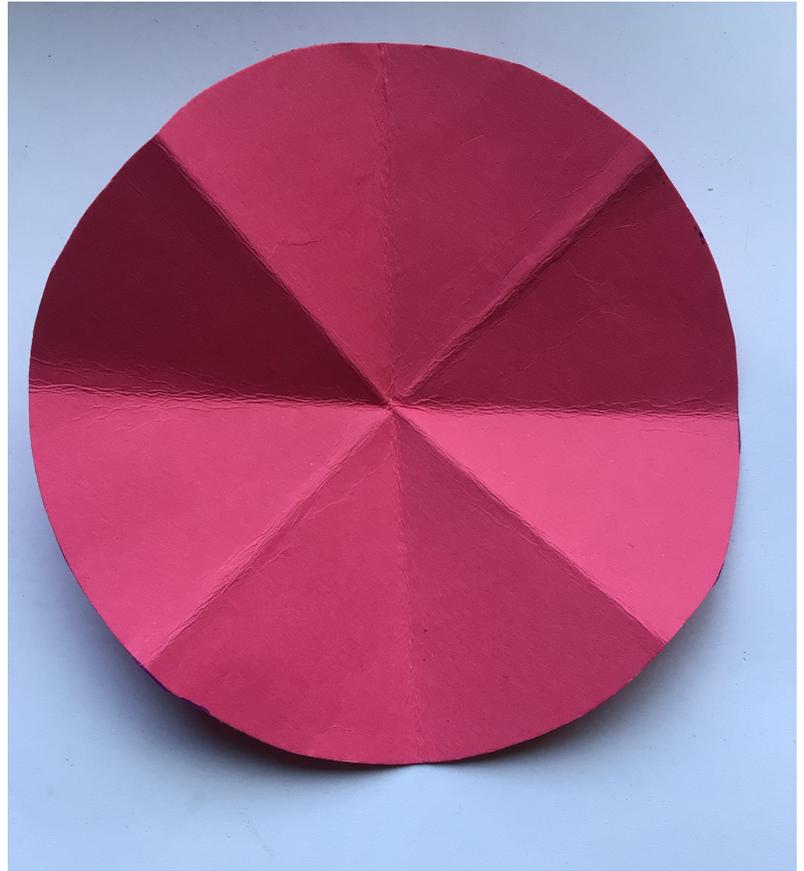
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Pie Charts

Definition:

Is a circle divided into sections to show how much of something.

1. Look at the picture, what do you notice?
2. Draw a circle, cut it out and fold it in half, then in half again. Your circle should have four sections. Fold these in half again so that you eight sections.
3. Make more with coloured paper. Cut out the sections. Mix up the colours and then put circles together with different colours. Past them in your math book.



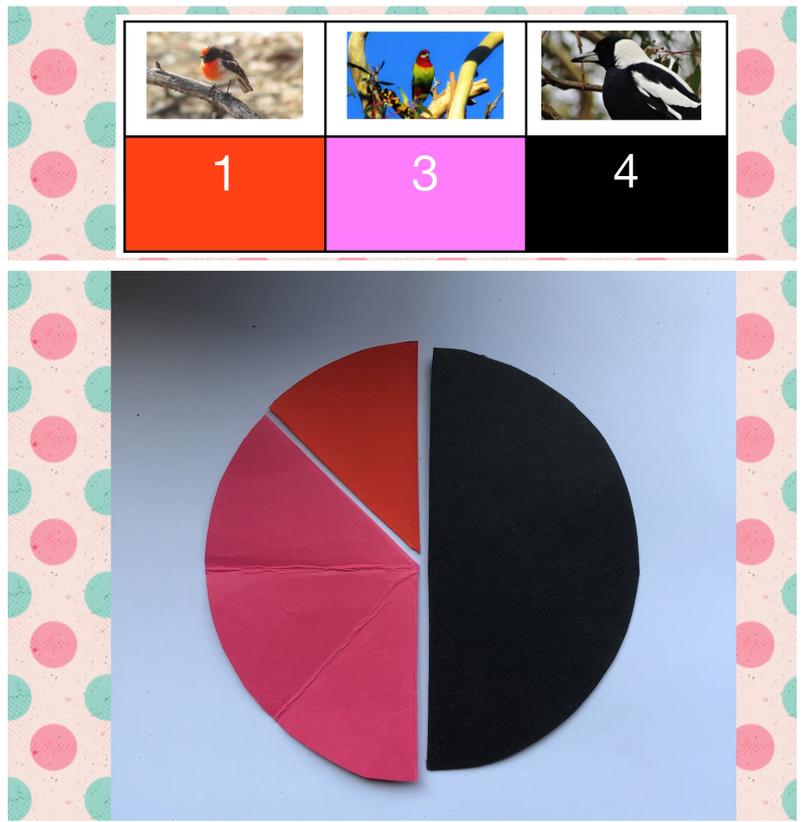
Challenge 18

Pie Charts

Definition:

Is a circle divided into sections to show how much of something.

1. Look at the picture, what do you notice?
2. Draw a circle, cut it out and fold it in half, then in half again. Your circle should have four sections. Fold these in half again so that you have eight pieces. Looking at the picture, colour your circle like mine. One section red, three sections pink and four sections black. Past it in your math book. Write down how many birds are represented by each section.
3. See if you can find some pie charts in non-fiction books.

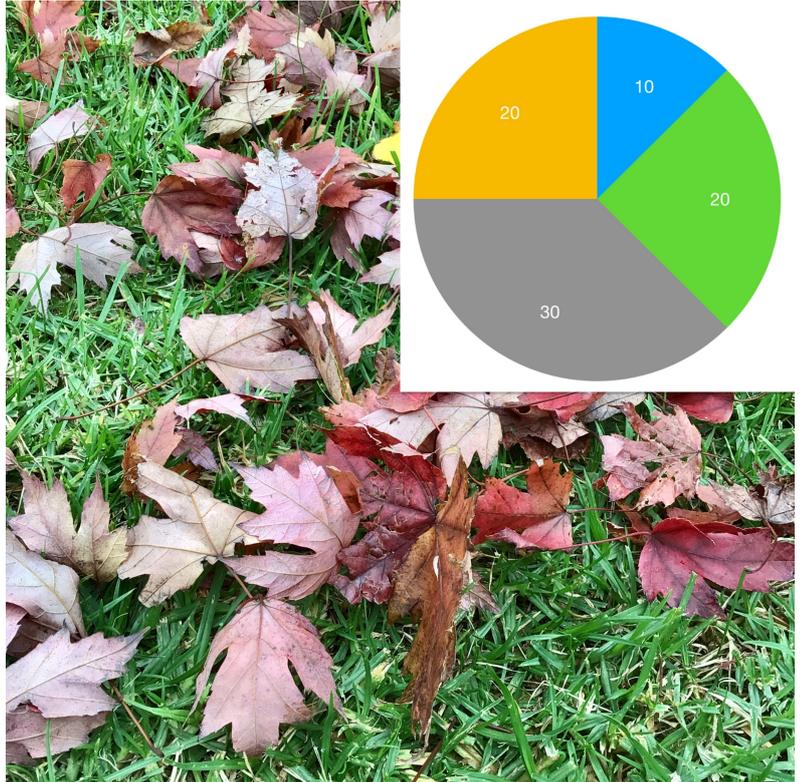


Pie Charts

Definition:

Is a circle divided into sections to show how much of something.

1. Draw a circle in your math book. Divide your circle in half, half again and then each of the sections in half again. You should have a circle divided into eight sections.
2. Each section represents 10 leaves. I collected 30 Eucalyptus leaves, 20 Oak leaves, 10 Maple leaves and 20 Birch leaves. Colour the circle so that it represents the leaves I collected.
3. Create your own pie chart. Colour and label it.



Challenge 18

Pie Charts

Definition:

Is a circle divided into sections to show how much of something.

1. Look at the picture, can you make a pie chart showing how many of each mini beast I found.
2. Start by drawing a circle. A circle has 360° . Take a protractor and divide your circle into 15 sections (total amount of mini beasts found) 360 divided by 15 is 24 , so each section will be 24 degrees. Colour the amount of sections to represent each creature.

