

Fractions

# Finding Half

Number and Algebra



*one half + one half = one whole*

Written for the Australian Curriculum: Mathematics

Sara MacDonald | Randall Hall | Richard John

## AUSTRALIAN CURRICULUM: MATHEMATICS

<b>Strand:</b>	Number and Algebra
<b>Sub-strand:</b>	Fractions and decimals
<b>Descriptor:</b>	Recognise and describe one half as one of two equal parts of a whole.

### MATHS WORDS

Whole, half, halves, halved, equal, circle, square, triangle, rectangle, group, dozen, half dozen

### INFORMATION FOR PARENTS OR CAREGIVERS

Helping your child learn to read is a rewarding and enjoyable experience for both you and your child. Here are some ways you can help your child with their reading.

#### BEFORE READING

- Introduce the book; read the title and look at the picture on the front cover. Ask what the book might be about.
- Look through the book and talk about the pictures. Ask your child if they know what one-half means? Have they had to cut something in half before?
- Refer to the maths words above. Discuss each word and its meaning. These words will appear in this book.

#### DURING READING

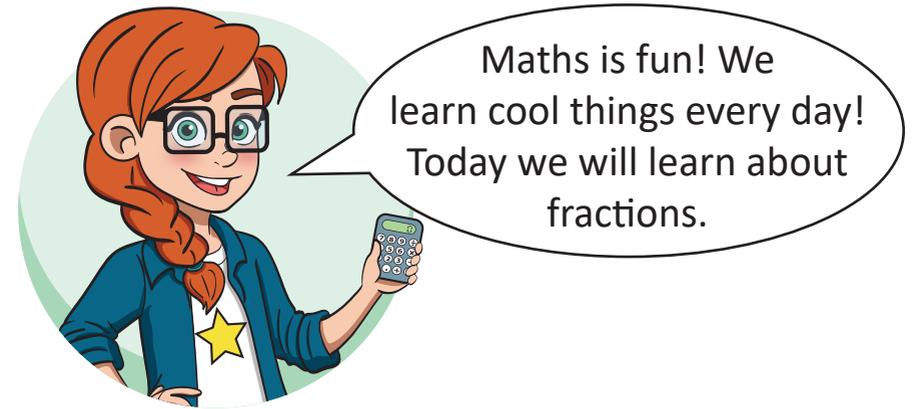
- At this level, your child should attempt to read their home reader on their own. They may be unsure of some words. Encourage them to break these words down into their individual sounds, blending them together from left to right.
- On the pages where Millie the Mathematician appears, discuss the maths vocabulary and interesting mathematical information presented.

#### MATHS CONCEPTS IN THIS BOOK

This book addresses the Number and Algebra strand of the *Australian Curriculum: Mathematics*. In this strand, students are required to develop their understanding of the concept of fractions being a smaller part of the whole.

In the earliest part of the *Australian Curriculum: Mathematics* the first fraction students encounter is **one-half** of a whole. Students understand that halving an object or group results in **two equal parts** of the whole and that these two parts can be summed to make up the whole.

The specific learning outcome addressed in this book is: *recognise and describe one half as one of two equal parts of a whole*. In later years of the *Australian Curriculum: Mathematics*, students develop the concepts of fractions further, starting with quarters and eighths, followed by thirds, tenths and other fractional ratios.



# Finding Half

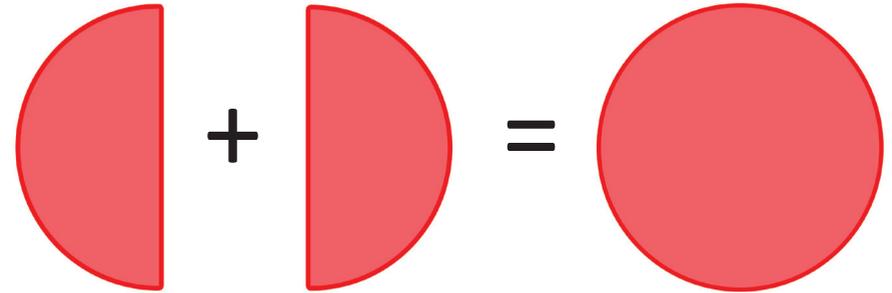
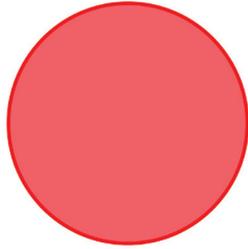


***one half + one half = one whole***

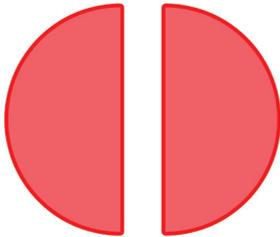
**Written for the Australian Curriculum: Mathematics**

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This is one whole circle.



This is the circle cut in half.

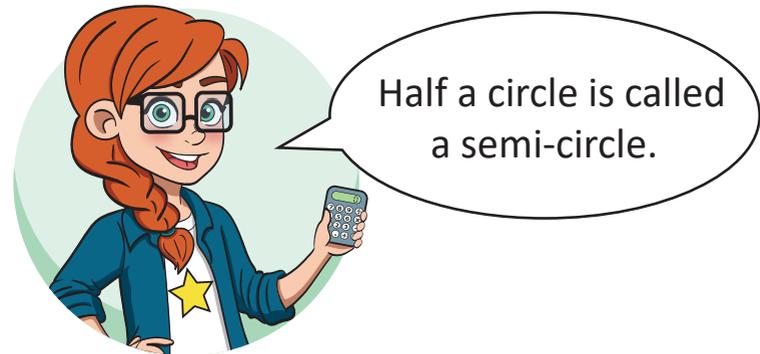


*one half + one half = one whole*

$$\frac{1}{2} + \frac{1}{2} = 1$$

There are two equal parts.

There are two halves.



This is one whole apple.



This is the apple cut in half.



*one half + one half = one whole*

$$\frac{1}{2} + \frac{1}{2} = 1$$

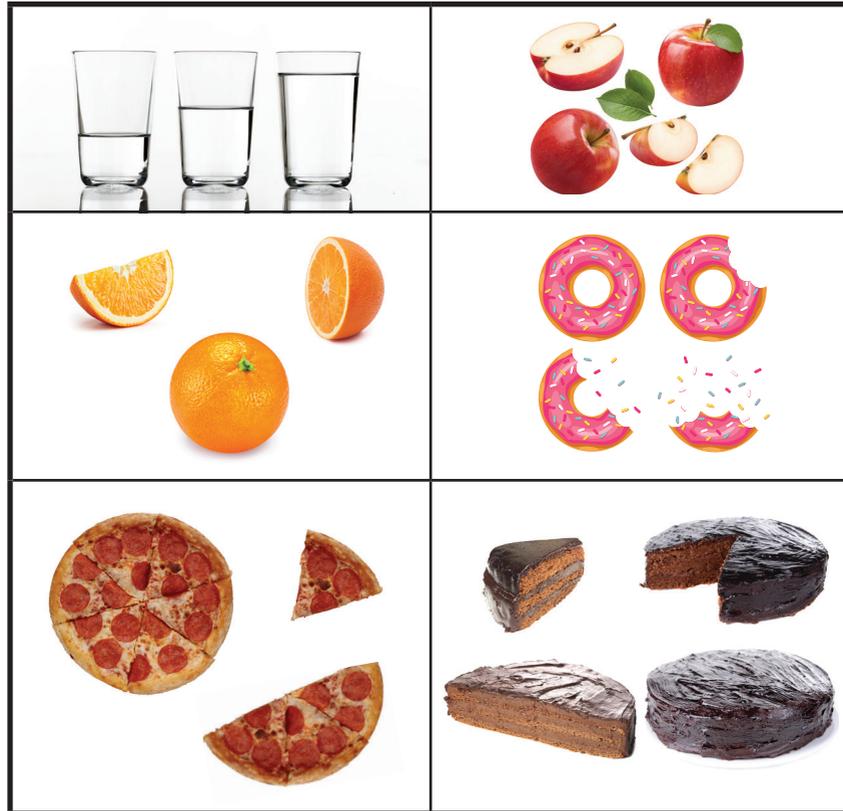
There are two equal parts.

There are two halves.



Equal means the same.  
Two equal halves are the  
same size.

Find the half in each box.



WOW!  
Fractions are cool! And  
so is maths.

## AFTER READING

Ask your child what the book was about and encourage them to re-tell it in the order in which it appeared.

Discuss the following with your child to assist them to understand the content of the book:

- What objects were halved in this book? What groups were halved?
- If you had a dozen cakes, how many cakes would you have?
- What does equal mean?
- What other objects can you cut in half?

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# Finding Half

Number and Algebra

Book 7 of 24

In this book Millie the Mathematician helps us learn about fractions and, in particular, halves. We learn that halving an object or group results in two equal parts and that these two parts can be summed to make up the whole. Millie the Mathematician represents the concepts of halves and wholes using everyday shapes, objects and groups of objects.

**Australian Curriculum:** All books in the 'Millie the Mathematician' series are written for the *Australian Curriculum: Mathematics* and align directly to what children learn in the classroom. This book addresses the learning outcome "Recognise and describe one half as one of two equal parts of a whole" from the *Number and Algebra* strand within the *Fractions and decimals* sub-strand.



WOW!  
Fractions are cool! And so is maths.

## PARENTS, READ ALONG WITH MILLIE!

Throughout this book Millie the Mathematician tells us interesting mathematical facts. Use these prompts to encourage further interest and discussion about **fractions and halves** with your child.

### Suggested Reading Level:



PM 8-12, Fountas and Pinnell E-G

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