



Clocks and time

# It's Time for School, Ruby

Measurement and Geometry



Written for the Australian Curriculum: Mathematics

Sara MacDonald | Randall Hall | Richard John

## AUSTRALIAN CURRICULUM: MATHEMATICS

<b>Strand:</b>	Measurement and Geometry
<b>Sub-strand:</b>	Using units of measurement
<b>Descriptor:</b>	Tell time to the quarter-hour, using the language of 'past' and 'to'

### MATHS WORDS

Time, clock, o'clock, quarter past, half past, quarter to, am, pm, minute, hour, weekday, morning, afternoon

### 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 pictures. Ask your child if they can tell the time. Do they know how to tell the time on an analog clock (with a big hand and little hand) and/or a digital clock? Are they familiar with terms such as 'quarter past', 'half past', 'quarter to' and am/pm?
- Refer to the maths words above. Discuss each word and its meaning. These words will appear in this book.

#### DURING READING

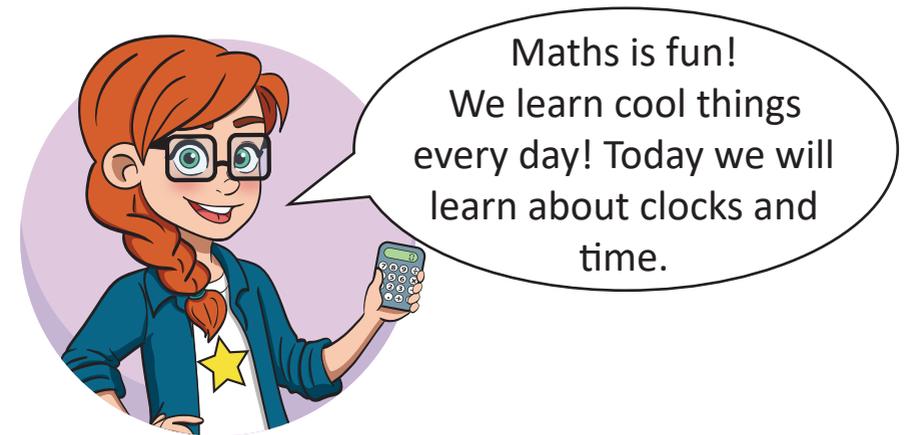
- At this level, your child should attempt to read their home reader on their own. There may be words they are unsure of. Encourage them to break these words down into their individual sounds, blending them from left to right.
- Stop your child on the pages where Millie the Mathematician appears. Discuss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

#### MATHS CONCEPTS IN THIS BOOK

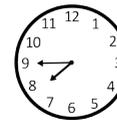
This book addresses the *Measurement and Geometry* strand of the *Australian Curriculum: Mathematics*. In this strand, students are introduced to a range of physical quantities including length, mass, temperature and **time**. Each of these are quantified using **units of measurement** (e.g. metres or centimetres for length; kilograms or grams for mass).

The units of **time** that students are introduced to include seconds, minutes, hours, days, weeks, months and years. Students are required to understand the concepts of seconds, minutes and hours in terms of both analog time (e.g. being able to read and understand 'quarter past seven' on a clock face) and digital time (e.g. being able to read and understand 7.15 am on a digital clock or watch).

Understanding the concepts of 'morning', 'afternoon', 'evening' and 'night' is also important at this early stage of the Australian Curriculum and differentiating time using 'am' and 'pm' is also introduced.



# It's Time for School, Ruby



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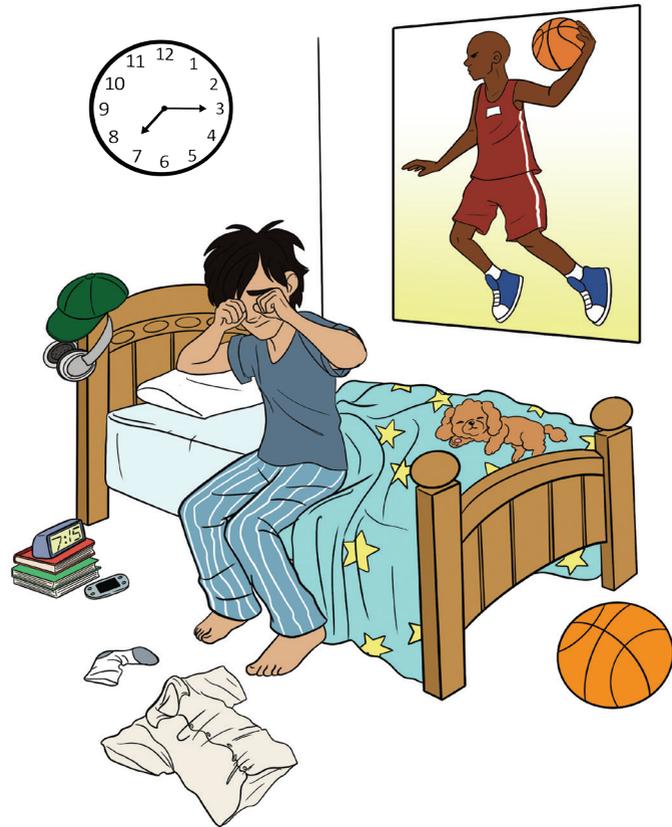
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Ruby loves school. She likes to wake up early on school days to get ready. Her alarm is always set for seven o'clock in the morning.

When her alarm clock beeps, she gets out of bed right away.



Ruby's brother, Jake, is a sleepy head. When his alarm clock beeps at seven o'clock, Jake does not get out of bed. He stays in bed for another 15 minutes.

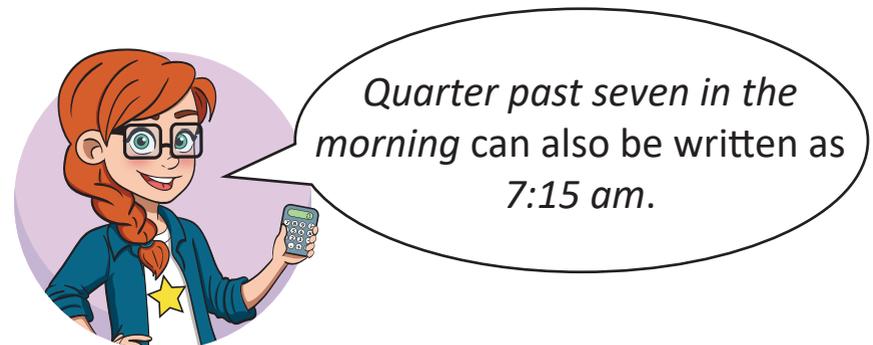


Jake crawls out of bed at quarter past seven.

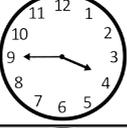
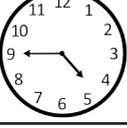
At quarter past seven, Ruby is already eating her breakfast.

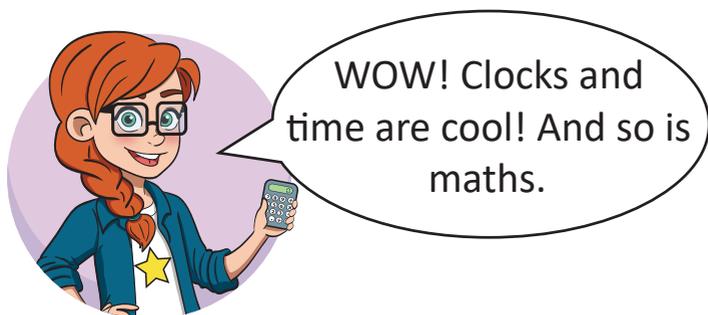


Ruby loves eating pancakes for breakfast. She has them with yoghurt, berries and golden syrup.



## Ruby's Afternoon

What Ruby does	What the clock looks like	Analog time	Digital time
School finished		Three o'clock	3.00 pm
Arrive at bus stop		Quarter past three	3.15 pm
Catch the bus		Half past three	3.30 pm
Arrive home and play		Quarter to four	3.45 pm
Do homework		Quarter to five	4.45 pm



## 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.

- At what time did Jake get out of bed? At what time did Ruby get home?
- True or false:
  - 9.30 am is in the afternoon.
  - 7.15 pm is in the evening.
  - 10.45 am is in the morning.
  - 4.00 pm is in the morning.
- Where does the big hand of a clock point when the time is:
  - 'quarter past'
  - 'half past'
  - 'quarter to'
- What time do you go to bed and what time do you wake up? Can you draw a clock face to show these times?

First published in Australia in 2018  
Griffith University

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### National Library of Australia Cataloguing-in-Publication data:

MacDonald, Sara; Hall, Randall; John, Richard

**It's Time for School, Ruby**

ISBN:978-0-6484080-3-1

Printed in Australia

### Acknowledgements

Additional Illustrators for this book: Sharlene Giuffrida, Kristina Giuffrida

Series Illustrators: Carissa Harris, James Elms, Gemma Duffill

Series Graphic Artist: Carissa Harris

Cover Design: Sam Dunn

Series Consultants: Samantha Hutchinson, Gayle Brent, John Robertson

Images: Shutterstock

### Community Partners

The authors gratefully acknowledge the support of the following people and organisations for their assistance in the production and distribution of this series:

Jock and Beverly McIlwain, Mermaid Waters, Queensland, Australia  
Griffith University, Queensland, Australia  
Rotary International, Australia, District 9640  
P&Cs Qld



# It's Time for School, Ruby

Measurement and Geometry

Book 23 of 24

In this book, Millie the Mathematician helps us to tell the time. We follow the daily routine of Ruby and her brother Jake as they get ready for school and progress through the school day. Millie helps us to read analog clocks using terms such as 'quarter past', half past' and 'quarter to'. She also introduces us to the concept of digital time (such as 7.15 am and 3.15 pm) and explains the difference between 'am' and 'pm'.

**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 content from the *Measurement and Geometry* strand within the *Using units of measurement* sub-strand. The specific Australian Curriculum content descriptor addressed is: "Tell time to the quarter-hour, using the language of 'past' and 'to.'"



WOW!  
Clocks and time  
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 **clocks and time** with your child.

**Suggested Reading Level:**



PM 20-24, Fountas and Pinnell K-O

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District 9640



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UNIVERSITY  
Queensland, Australia

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ISBN 978-0-6464080-3-1



9 780648 408031

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