

Sam's Birthday Drive



Aquinas Early Maths Series

Help your child to master maths in
Reception and Year 1

Book 2 – zero to 5.



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How to get the most from this book

This book will help your child with three important areas of early maths. When you read it with them, take time to talk about the pictures .

Then use the pictures and words to help your child:

1. To practice **counting** up to 5
2. To '**just see how many**' for up to 5 things – without having to count. This is an important skill called **subitising**.
3. To **show how whole numbers can be split into different parts**. This helps children grasp how numbers are related to each other and work together in simple addition and subtraction. For example, 5 can be split into '4 and 1' or 3 and 2'. This is called the part - part - whole model.

Try to read the book a number of times – the more you read it, the more fluent with numbers your child will become.

This supports a mastery approach to teaching maths where children understand numbers in depth, using visual models and language to support them.

At the end of this book, you will find more suggestions for good ways to support your child to master Reception maths through games.

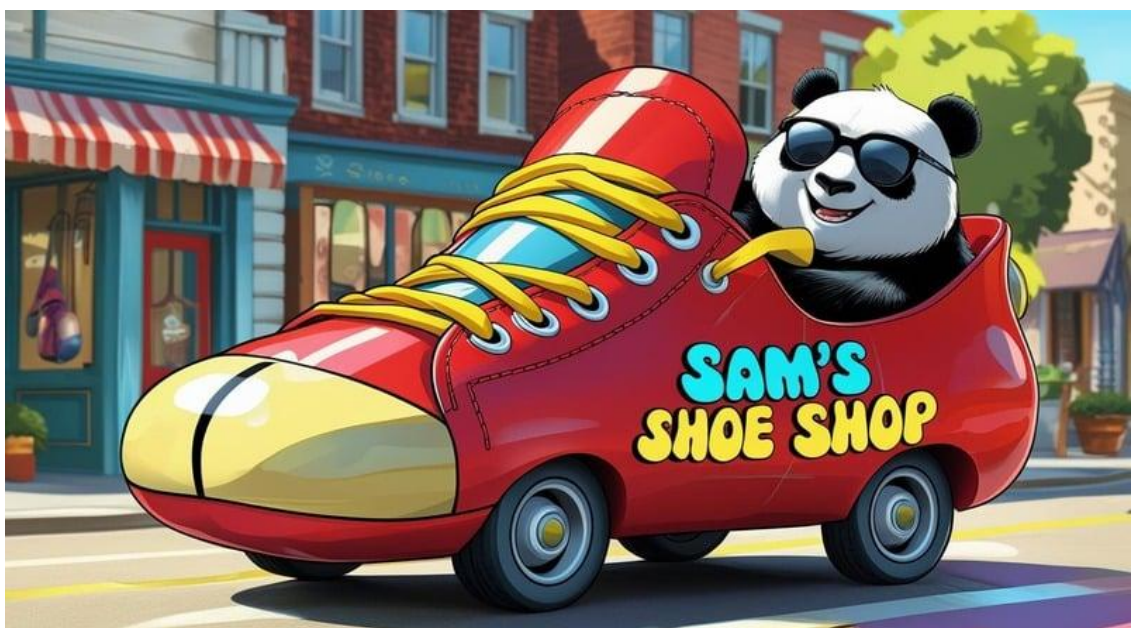
Sam Panda is driving to work on his birthday.

When is your birthday? Do you know?

I wonder what kind of job Sam does?
Can you guess?

On his way to work, Sam loves to look at
the cars and trucks he sees in Animal
Land and count his friends inside.

Can you help him?



First, Sam sees his friend Freddie Fox!

Freddie has a red racing car.

How many animals are in the car?



Where is that on the number line?



Next, he sees his friends the Pigs.

How many pigs are there?

Count them or just say if you can see!

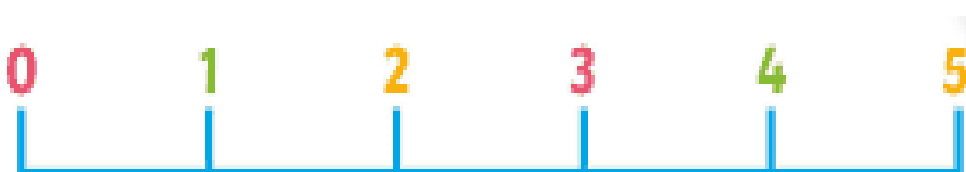


_____ in the front, driving the van.

_____ in the back.

_____ and _____ make _____.

Where is that on the number line?



Next, he sees the Owl Family going to school.

How many owls are there?

Count them or just say if you can see!



_____ in the front, driving the car.

_____ in the back. He is a little owl.

_____ and _____ make _____.

Where is that on the number line?



Here is the Cat Family going to school.

How many cats are there?

Count them or just say if you can see!



_____ in the front, driving the car.

_____ are passengers behind the driver.

_____ and _____ make _____.

Where is that on the number line?



Here are some of Sam's best friends – the Monkey family.

How many monkeys are there?

Count them or just say if you can see!



_____ big monkeys.

_____ little monkey just peeking out.

_____ and _____ make _____.

Where is that on the number line?



Here are Ma and Pa Pig and their little piglets.

How many pigs are there?

Count them or just say if you can see!

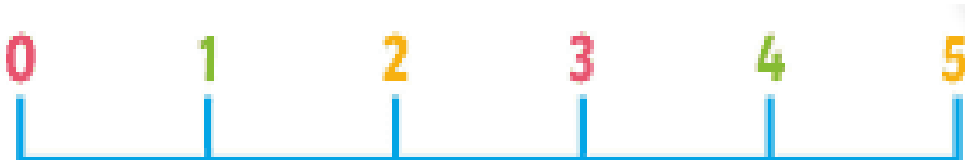


_____ adult pigs.

_____ little piglets.

_____ and _____ make _____.

Where is that on the number line?



Here is Daddy Dog and his puppies.

How many dogs are there?

Count them or just say if you can see!



_____ little puppies.

_____ Daddy Dog.

_____ and _____ make _____.

Where is that on the number line?



Sam loves waving to the Fire Dogs and their fire engine.

How many dogs are there?

Count them or just say if you can see!

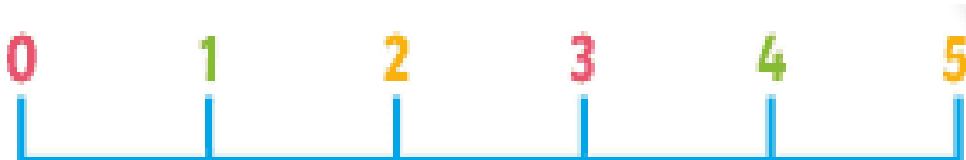


_____ dogs at the top.

_____ dogs at the bottom.

_____ and _____ make _____.

Where is that on the number line?



Oh no! What has happened here?

Somebody's car has got stuck in the sand!

I wonder how that happened?



There are no animals in the truck.

What is the maths word for no animals
or none at all?

It starts with Z...

Where is that on the number line?



Sam has got to work.

He works in a shoe shop called Sam's Shoe Shop.

But what a surprise – his friends have organised a party for him!

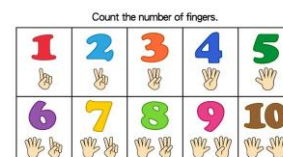


Which of the animals can you see?

And who is missing?

How many different kinds of animal were there in the whole book?

What else can you do to help your child with maths in Reception?



Use this QR code for the
Make 5! game

1. **Watching Numberblocks** together on BBC iPlayer. Watch the recommended episodes, sing, count and talk about them together,
2. **Practise counting** up to 5 and then 10 in different ways
 - **Count up** from zero to 10. Count together, take turns and try different voices – like a whispering voice.
 - Pretend to be in a rocket and **count down** from 10 to zero and shout 'Blast off!'
 - **Count up and down from a number that is not 1.** For example, start at 5 and count up.
 - **Hopscotch** – say the numbers as you jump on them.

3. **Practise 'just' seeing how many there are** without having to count. Build up to 5.
 - Playing games with dice and dominoes is very helpful as the numbers are presented in consistent patterns.
 - Fingers are also excellent. For example, show three on your fingers and ask them how many.
 - 1 Minute Maths from White Rose is a free app. Look for the subitising activities.

4. **Play games like [Make 5! \(with fingers\)](https://youngmathematicians.edc.org/math_games/make-5-with-fingers/)** by the Young Mathematicians organisation. The website has clearly explained videos in English, Spanish and Portuguese. You work with your child to make 5 with the fingers on two hands. The adult starts. If the adult shows 2 on their hand, how many will the child need to show on their hand?

https://youngmathematicians.edc.org/math_games/make-5-with-fingers/

5. **Counting past 10 to see and hear the pattern in the words.** In Reception, the children focus on counting and really understanding the numbers to 10. We do also count past 10 and 20 with the emphasis being on understanding the pattern. For example **sixteen, seventeen, eighteen, nineteen, twenty, twenty-one, twenty-two, twenty-three...**

Watching the BAFTA Award-winning Numberblocks on BBC iPlayer is an excellent way to support your child. Watch the episode, talk about it and pause it at times to ask your child what is happening and to talk

Series 1 Overview
stories and mathematics

Numbers to 5



Episode	Name	Storyline	Mathematics
1	One	A little block falls out of the sky, meets her numberling and discovers one wonderful world, singing and counting to one.	• Meet <i>One</i> • Counting to 1
2	Another One	<i>One</i> discovers it's tricky to play tennis when you're the only block in the world. She bumps into a magic mirror and meets <i>Another One</i> – and they join forces to make <i>Two</i> .	• Meet <i>Two</i> • 2 is one more than 1
3	Two	<i>Two</i> finds a pair of magic dancing shoes and shows <i>One</i> that everything is better with 2, singing and counting things that belong in pairs.	• Counting to 2 • The 'twoness' of 2
4	Three	<i>Three</i> arrives with a bang – and a song-and-dance about her favourite number: 1, 2, 3, Everybody Look at Me!	• Meet <i>Three</i> • 3 is one more than 2
5	One, Two, Three!	<i>Three</i> does magic tricks with apples to show the others who goes first, who's biggest and how to surprise your number friends.	• Counting to 3 • Comparing numbers 1,2 and 3 – 'bigger' and 'smaller' • Ordering numbers 1 to 3 • 3 is made of 2 and 1
6	Four	<i>Four</i> is the new block on the block and he can't wait to share how much he loves to be square!	• Meet <i>Four</i> • 4 is one more than 3 • Counting to 4 • The structure of 4 as a square number • Recognition of 4 items without counting (subitising)
7	Five	<i>Five</i> arrives to get the band together – and gets the party started – with a big high five!	• Meet <i>Five</i> • 5 is one more than 4 • Counting to 5 • Line up 1 to 5 in order
8	Three Little Pigs	The Numberblocks present their very own, very numbery version of the classic tale: The Three Little Pigs and the Big Bad Square.	• Counting to 4 • Adding 1s
9	Off We Go!	<i>Five</i> and friends set off on a rhyming romp through field and forest but they keep getting mixed up!	• Counting to 5 • Line up 1 to 5 in order • Identify missing numbers within a 1 to 5 line-up

These episodes are the perfect way to start Numberblocks. Try to watch them in order and enjoy them a few times together.

Series 1 Overview

stories and mathematics

Numbers to 5



10	How to Count	It's a lovely day for a picnic but one of the flapjacks is missing! Is there a flapjack-snaffler on the loose or has <i>Three</i> forgotten what Numberblocks do best?	- The key principles of counting: One-to-one correspondence – match one number name to each item to be counted Cardinality – the last number in the count is the total size of the group Stable order – say the number names in the correct order
11	Stampolines	<i>Three</i> opens a stampoline park, where her friends have splatty fun making inky prints of all the shapes they can make.	- Subitising numbers 1 to 5 - Different ways of arranging blocks to 5 - Conservation of number – different arrangement of blocks but the number remains the same
12	The Whole of Me	The Numberblocks show us what they are made of in a song and dance all about the parts that make a whole.	- Composition of numbers 1 to 5 - Introduction to the 'part-part-whole' structure of number - Partitioning a whole number into parts - Conservation of number – a number can be partitioned but the whole (total) remains the same
13	The Terrible Twos	Double trouble as <i>Four</i> splits and a pair of tricky twins turn up: The Terrible <i>Twos</i> , who decide it's time to tickle their friends to pieces.	4 can be partitioned into 2 and 2; and, 1 and 1 and 1 and 1.
14	Holes	<i>Five</i> and friends discover a hole that makes their heads fall off!	- The number of a group can be changed by adding to it or taking from it. - Addition and subtraction of 1 - Number bonds to 5
15	Hide and Seek	<i>Five</i> is so good at hide and seek, she can find the others without looking up from her book – but how?	- Addition and subtraction of numbers to 5 - Number bonds to 5

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We also recommend a simple and fun game called 'How many are hiding?'

Full details at:

https://youngmathematicians.edc.org/math_games/how-many-are-hiding-2/