

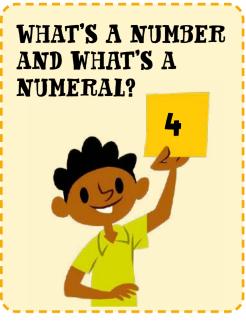


NUMBERS, NUMBERS EVERYWHERE

We are surrounded by numbers. But why are they so important? What do we use them for? And what do they tell us?

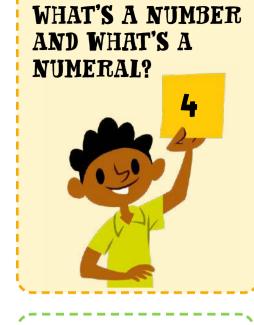
NUMBERS TO

PLAY WITH







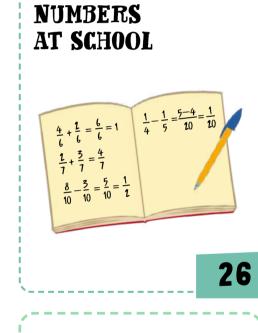










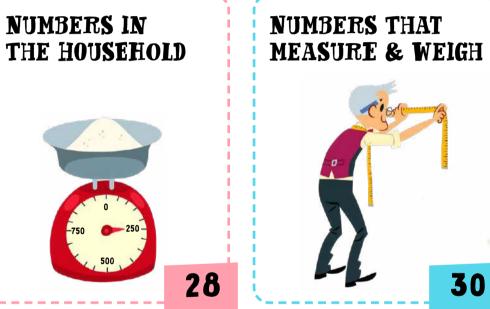


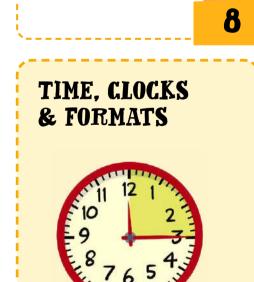
NUMBERS THAT

JOSEPH DAY 1/2/2023 01:23

20

EXPRESS AGE

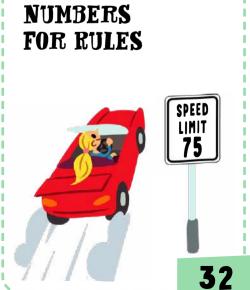




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WHAT'S A NUMBER AND WHAT'S A NUMERAL?

Numbers are nothing new for you. You learned about them at an early age, long before you understood their meaning and how to use them.

Numbers are symbols that determine quantity and order. They are practically everywhere—at home, in shops, in the street, at school . . . They play a very important role in our everyday lives. Oh how we would struggle to get by without them!

So that we can see these numbers, we need symbols, known as **numerals**. These work just like letters do. Each letter of the alphabet is shown as a symbol, which we can read and put together with other symbols to make words. It's the same with numerals.

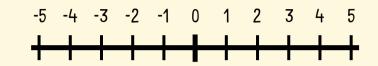
0123456789

zero one two three four five six seven eight nine

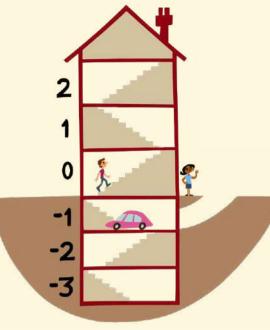
0–9 are the numerical digits, and each has a different value. Although there are only 10 numerals, we can use them to make any number we like. All we have to do is line them up.

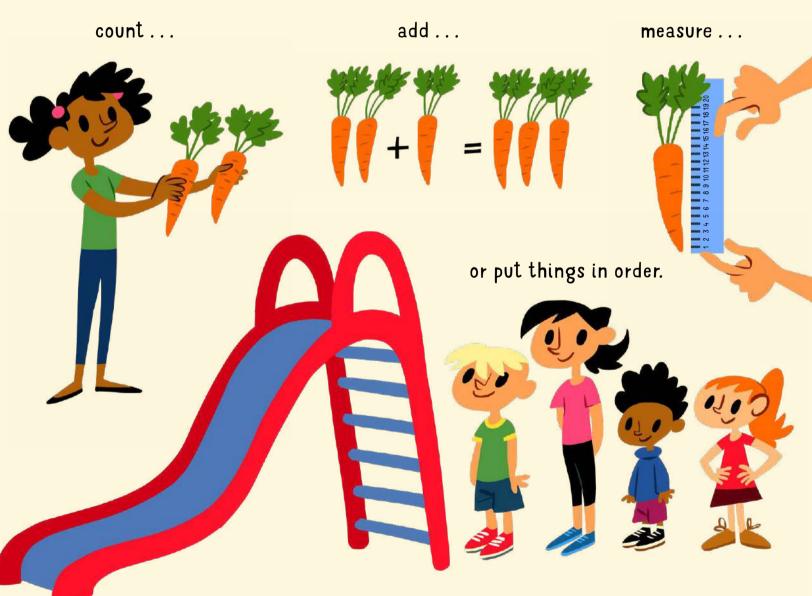


There are negative numbers as well as positive ones. We recognize a negative number by the minus sign in front of it. It represents anything less than 0. Imagine a house with some floors above ground and some floors below.



The many ways we use numbers include when we want to:





Numbers help us with many, many more things too. Let's take a look at what they are.



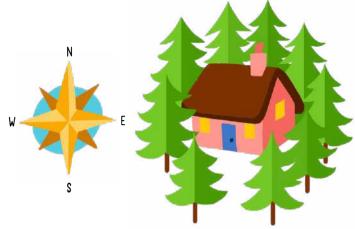
Every child in this city knows that Tram No. 3 goes to the zoo.

I'd like to drive down the famous Route 66. Wouldn't you?

ROUTE

Without GPS coordinates, we would never have found the hunting lodge.

49.1668906N, 13.6066886E



Numbers we

FIND OUR WAY BY

... show us distance and direction. They tell us which route to take and where to find what we're looking for. Thanks to numbers, we get on the right bus, leaf through a book to the right page, and find the building where our friend lives.

Numbers help us find our way around so we don't get lost.





The hairdresser's salon

is on the 5th floor.

Let's take the elevator.

HAIRDRESSER'S SALON

Ah!
Number 7-my
room. I can
rest at last!



Grandma lives at 25 Flower Street.



3 miles



I'd rather go to the museum. The pond is too far.



111

PLAY WITH

... move our piece forward on the board. They set our course. They let us enter the next round of a computer game or win a game of cards. These numbers are fun! What's more, things like hopscotch, dice games, and numbered pictures teach us from a young age to tell numbers apart, name them, and put them in the right order.



Numbers 1 to 4 must appear once in every row, across and down. Can you crack it?



I'm on square 15 already. Looks

like I'm going

to win today.

I'm almost there . . . I'm about to hop to the end!



Will you draw the rest of me?

The next

number in the draw

is . . . 16!

I still don't understand why the blue one is more expensive.
They look the same . . .



20 bucks? That's pretty expensive for a plain old lunch?

Though we can't see it, a bar code contains the price.

Numbers that give

MONETARY VALUE

... tell us how much something costs. Now we know how much to pay before buying something from a store or having lunch in a restaurant. Price tags in shops, dollar bills and coins, special offers in toy catalogs—the numbers on these are the ones we encounter the most in everyday life.

TARY

Yay! I've finally saved up for the robot I've always wanted.

al re e.

Should I pay with dollar bills and coins? Or use my credit card?



Should we buy skis? They're much cheaper in the summer.

FOR SALE \$800,000



That'll be \$40, please.



I wonder if this little house will sell for this much money.





if we know how, we can use them to decipher secret messages, one of which may lead us to hidden treasure!

No one but me knows the passcode for my phone.



8, 4, 5, 1, 3 ... CLICK ... And the family safe is open!





Whoops! I got the code wrong again.







Let us take a little detour here-down the path of time . . .

TIME, CLOCKS & FORMATS

You probably see numbers on clocks every day. What's more, everyone mentions them regularly. That's because time affects most of what we do. By learning to manage our time well, we make our lives calmer and avoid a lot of unpleasantness.



Because telling the time on a clock is quite complicated, it takes a while to learn it. Clocks divide time into large and small periods, known as hours, minutes, and seconds. These give us the exact time whenever we look at them. Not all clocks look the same, however. Some have hands, while others (digital ones) show digits.

The small hand shows the hour.

Clocks with hands

It has a face with the numerals 1 to 12 and two hands that spin slowly around all the time. The big hand shows the minute.



Digital clock

It has numerals to show the time.

The number before the colon shows the hour.



The number after the colon shows the minute.

Learning to tell the time

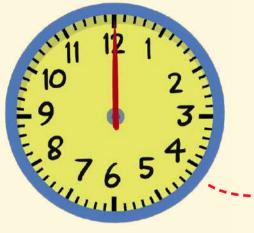
Each day has 24 hours. Each hour has 60 minutes. As a beginner, it is enough for you to recognize the 1/4 hour, the 1/2 hour and the 3/4 hour—and to know how many minutes each has. Before long, you will understand time much better.





1/4 hour = 15 minutes

1/2 hour = 30 minutes



1 line = 1 minute

1 hour = 60 minutes

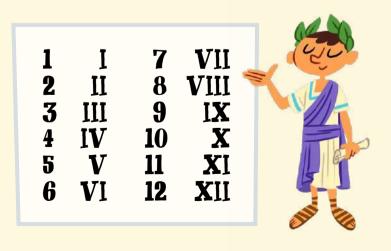


3/4 hour = 45 minutes

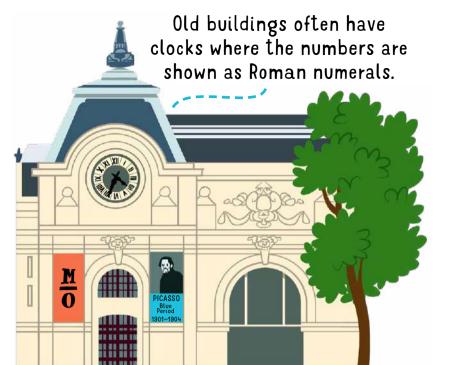
Roman numerals

Sometimes the numbers (and the numbers on clocks) are quite different. Some numbers don't look like numbers at all. Roman numerals, for instance, are numbers expressed as letters.





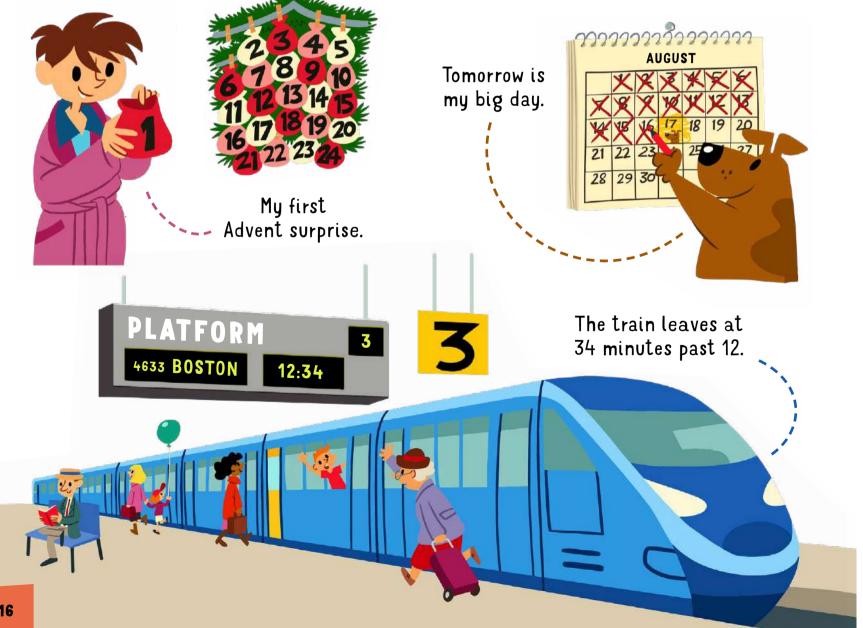
OK, let's move on. Time is pressing ...

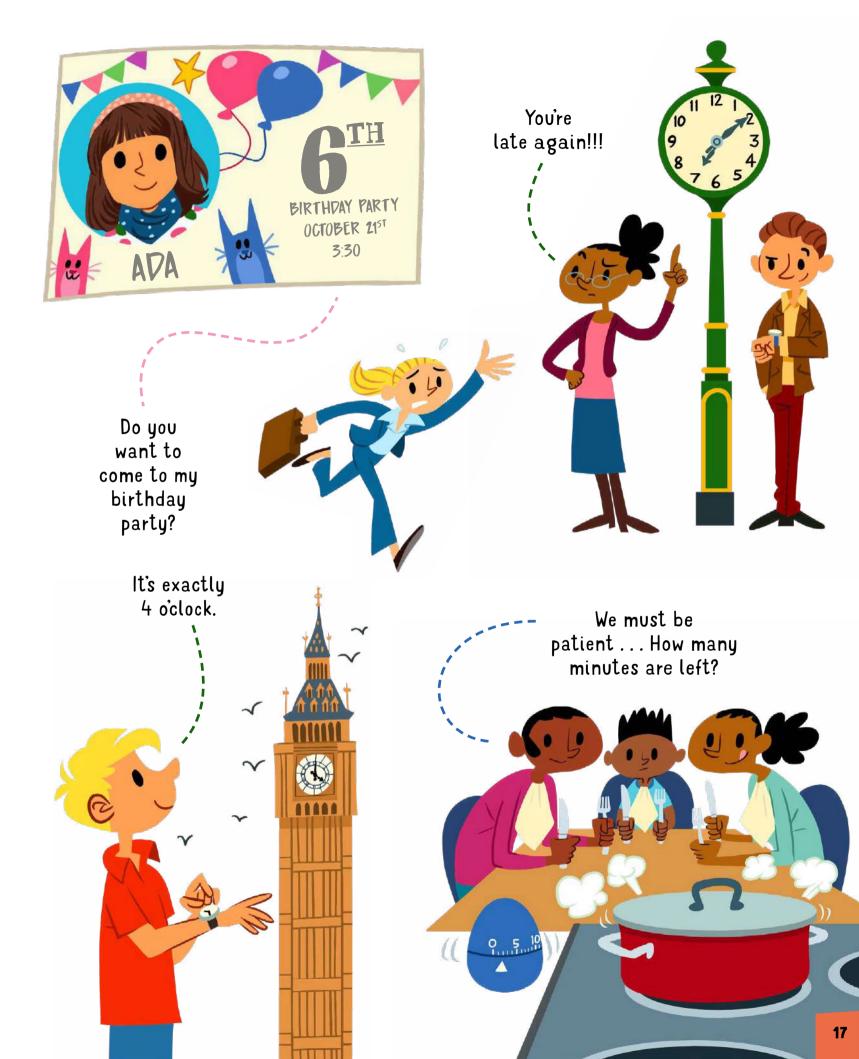


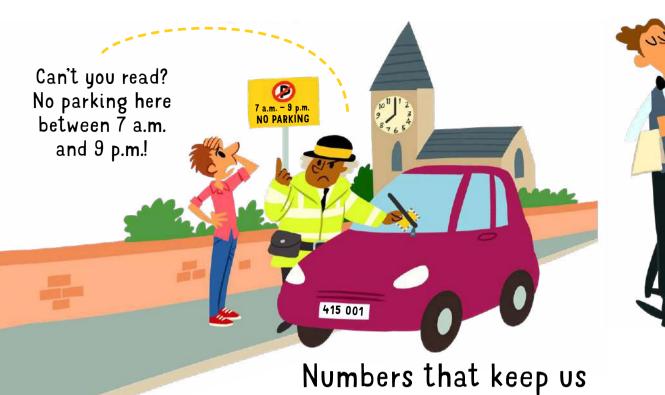
Numbers that tell

TIME

... tell us when we need to be where, and exactly when our train leaves ... Like it or not, the world around us is time dependent. Time rules almost everything. When we plan to meet up with friends, we agree on a time. When we arrive at school or the doctor's, we do so at a particular time. It takes a certain amount of time to cook lunch. And what would be the point of arriving at a birthday party before it begins?



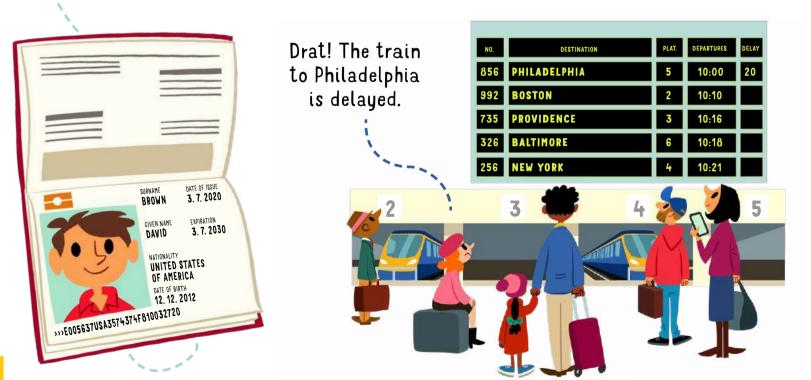




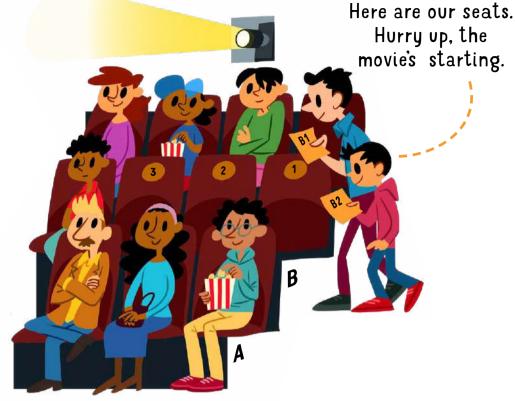
ORGANIZED

Each passport has its own unique number.

... help society work better and create order. A passport number identifies the holder. A registration number for a car identifies its owner. Numbers lead us to our seats at the movies and the waiter to our table with our food. Without them, we would struggle to learn which platform our train will leave from, and at what time . . . These numbers are super valuable to the lives we lead.







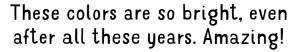




This is too much for me. I'll have to call for help.



A license plate must be visible at all times ...





H. C. ANDERSEN 1805-1875

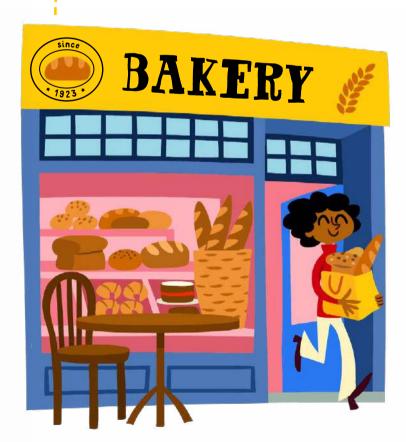
Numbers that express

AGE

. . . indicate the time that something took or will take. They return us to the past, be it distant or recent. They express how old we are, and they tell us things like when a library was built and when a famous writer or ruler lived.

Plus, they warn us about when food is no longer safe to eat.

We have been serving satisfied customers for nearly 100 years.





I've been in the world for 2 days now . . .

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... And we've been here for 80 years ...



Yuck! This yogurt is way past its expiration by!



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Anderson

sure wrote

a lot of books.



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