

# The Fibonacci Issue

Before him, writing numbers was difficult.  
Only for the elite few.  
Then it got easy.  
For everyone.

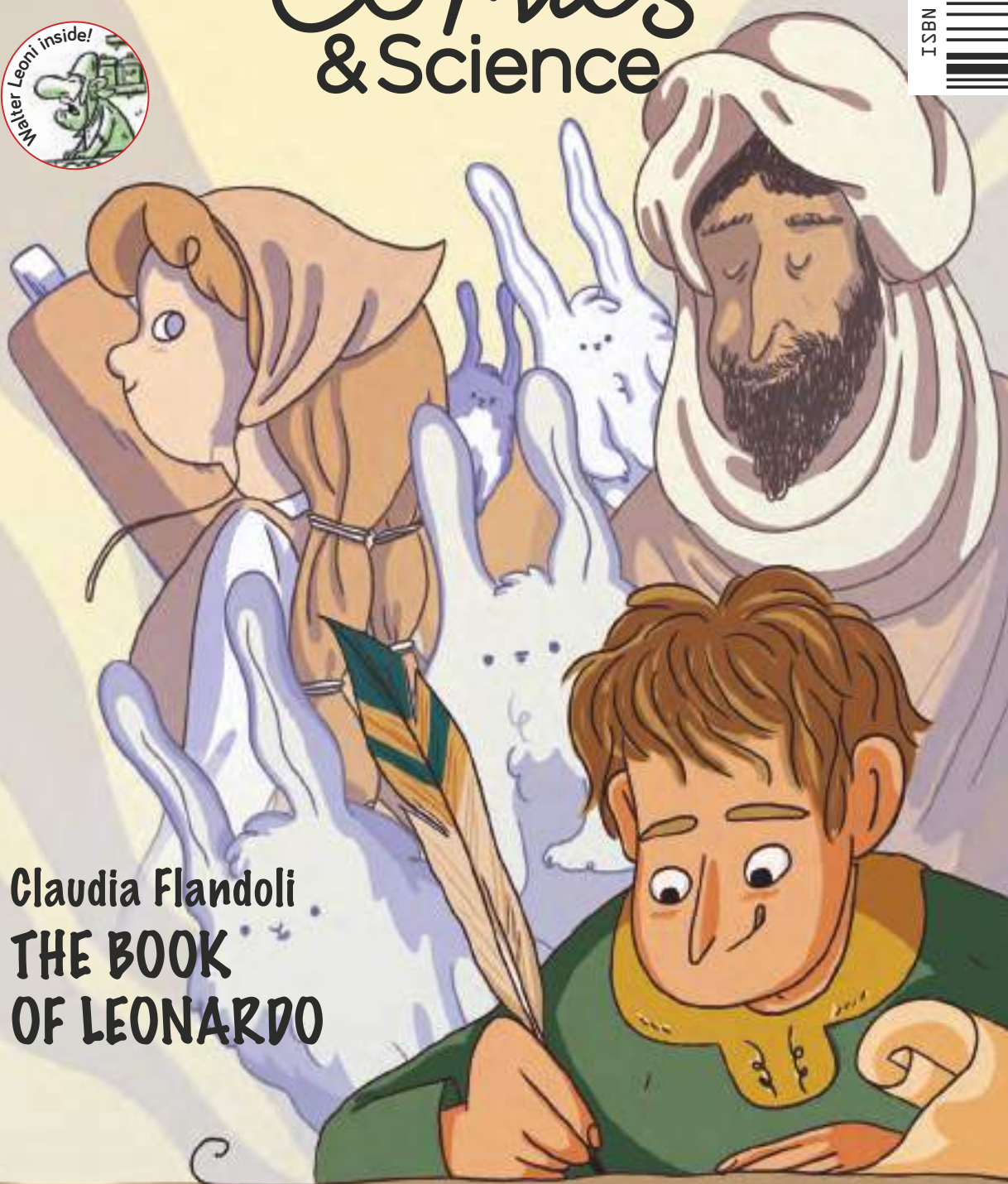


# Comics & Science

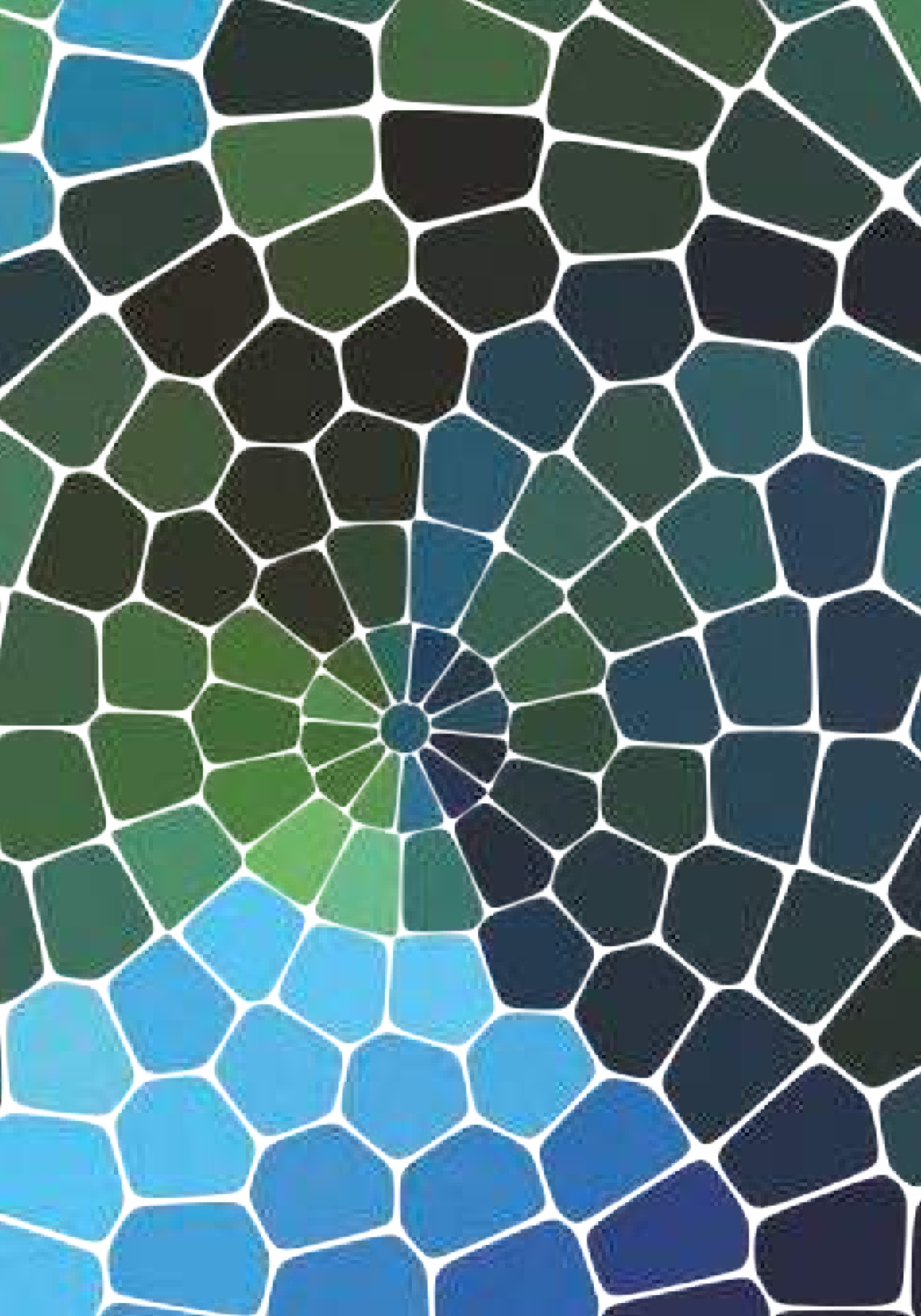
WHERE  
ENTERTAINMENT  
AND SCIENCE  
MEET

ISTITUTO  
italiano  
DI CULTURA  
DUBLINO

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Claudia Flandoli  
**THE BOOK  
OF LEONARDO**



# INTRO

In the early 13th century, Leonardo Pisano—later known as Fibonacci, also nicknamed "bigollo", or "wanderer"/"vagabond"—published his *Liber Abbaci*, introducing Indo-Arabic numerals and positional notation to the West. Laid out with concrete examples, he describes the first calculation algorithms essential to merchants of the era, such as the "rule of false position" or the sophisticated "method of double false position." Thus we can safely say he was the initiator of a cultural revolution comparable to the recent digital shift. And yet today, he is remembered almost exclusively for his famous rabbit problem, the "Fibonacci sequence."

That's why we decided to devote this issue of *Comics&Science* and Claudia Flandoli's comic to him. Claudia, now living in Cambridge (UK), is originally from Pisa and has a scientific background, so she was a natural choice for bringing together familiarity and historical precision. This initiative, in collaboration with the Applied Mathematics Institute (IAC – Istituto per le Applicazioni del Calcolo) of the National Research Council and the Italian Cultural Institute of Dublin, is an opportunity to share the Italian scientific history, a subject often insufficiently promoted with international audiences.

Roberto Natalini  
Andrea Plazzi

## THE BOOK OF LEONARDO

CLAUDIA FLANDOLI



Claudia has a background in biology, graphic design, cartooning and scientific illustration. She lives in Cambridge (UK).

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# FIBONACCI IN IRELAND

**MARCO GIOACCHINI**  
*Director*  
*Italian Institute of Culture Dublin*



This English issue of the Comics&Science magazine is dedicated to the Italian mathematician Leonardo Fibonacci.

It is a contribution to the circulation of scientific culture among young adults and children.

This occasion is due to the joint participation of the IIC and the IAC (Italian Institute for the Applications of Calculus – National Research Centre) at the Munster Maths and Science Fair 2022 which will take place in Mallow, Co Cork.

The fair since 2010 attracts annually around 4000 children from primary and secondary schools, coming from all around Munster. This is a good occasion to bring visibility to Italian Sciences, which is why our Institute has decided to fund the publishing of this magazine in English and launch it for a young public during next edition of the Fair on 16th October.

We wish to extend our big thank to all the people who have created the contents of the publication, to the scholars who helped its circulation in Italy and abroad and the organizers of the Munster Maths and Science Fair who enthusiastically accepted to host our delegation.

Last but not least we wish to thank all the young readers who will want to know more about the great Fibonacci and find out how his ideas have been revolutionary. They remain unparalleled, to this day, long after the events narrated in this story.

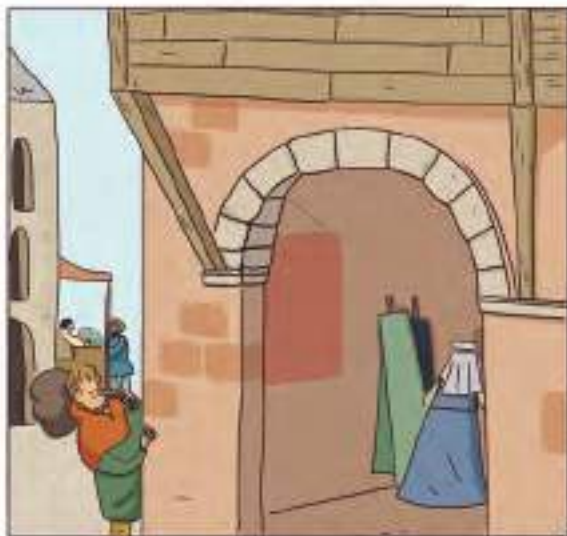
Enjoy the reading!





# The Book of Leonardo





























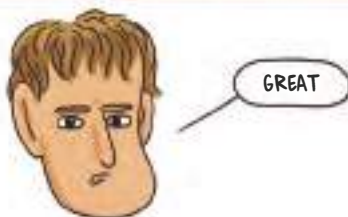










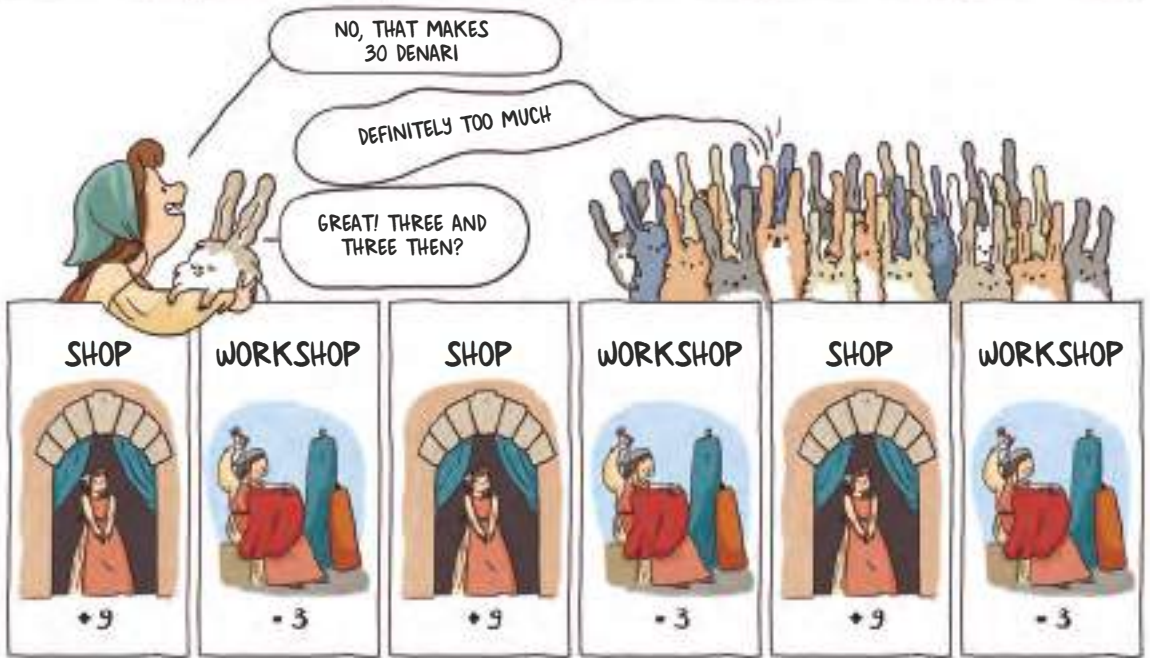
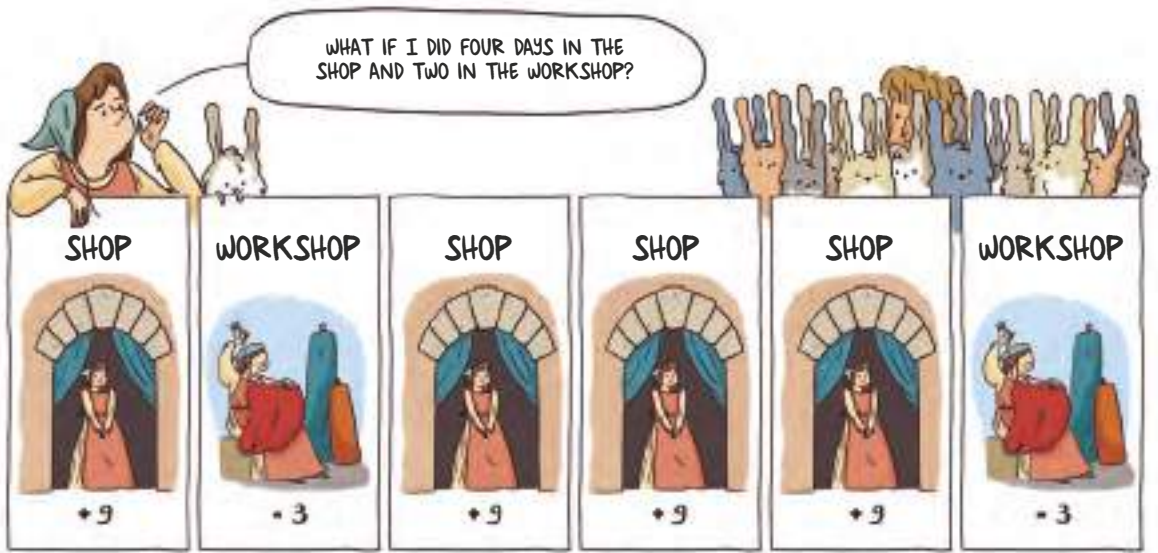


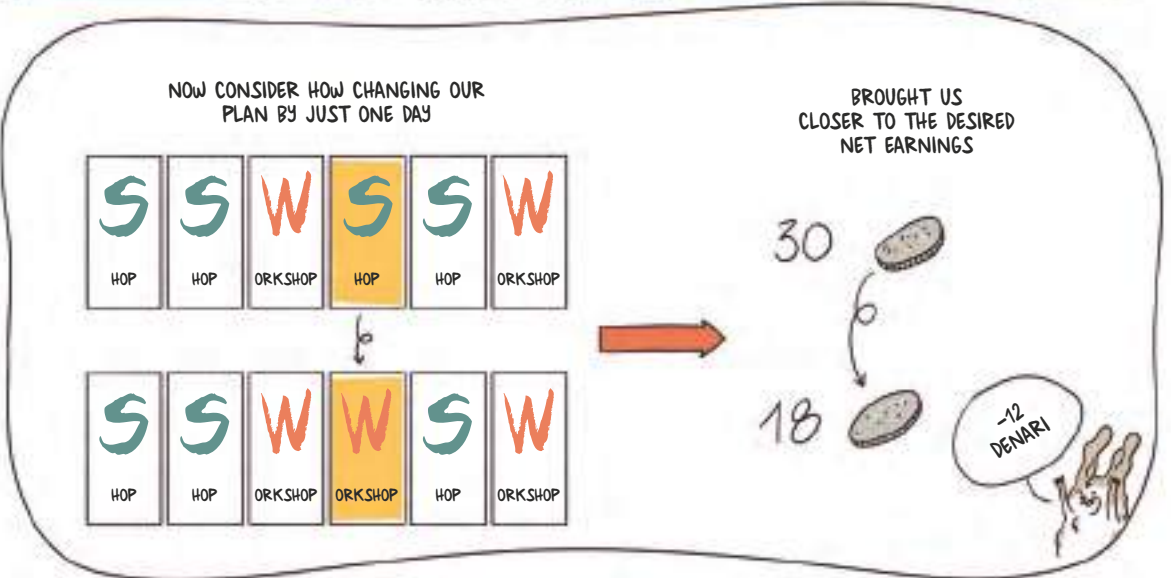












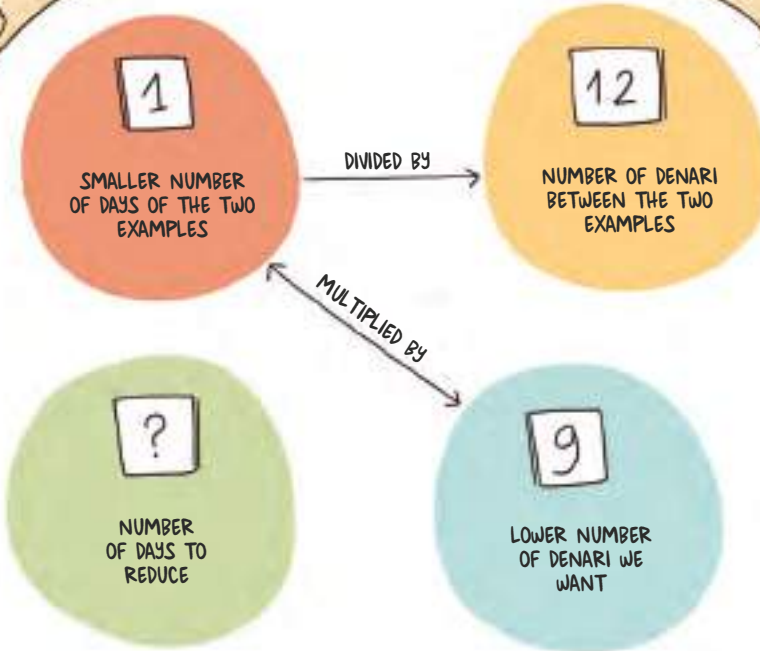


SO LET'S SAY, WITH ONE FEWER DAY I CAME CLOSER BY 12. HOW MUCH MORE DO I HAVE TO REDUCE TO GET NINE MORE CLOSER? TO FIGURE IT OUT, WE'LL USE



## THE RULE OF THIRDS

(I KNOW THREE NUMBERS AND FIND THE FOURTH)



SO THE DAYS YOU HAVE TO SPEND IN THE SHOP PER WEEK ARE:

$$3 - \frac{1 \times 9}{12} = 3 - \frac{3}{4} = 2 + \frac{1}{4}$$

OUTSTANDING! LET'S GET TO WORK!



THREE  
WEEKS  
LATER



HOW MUCH FOR  
THAT TUNIC?

15 SOLD!

IT'S  
FLORENTINE  
EMBROIDERY!







# WORLDLY OLE FIBONACCI BULLIES HIS CONTEMPORARIES

400 GRAMS OF  
FLOUR, PLEASE!

HUH?! HOW  
MUCH FLOUR?

OOPS! SORRY, I FORGOT.  
CD GRAMS, AND MAKE IT...

DOUBLE ZERO!

DOUBLE  
WHAT?!



LEONI







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