

# **The Magic of Numbers**

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## Summary

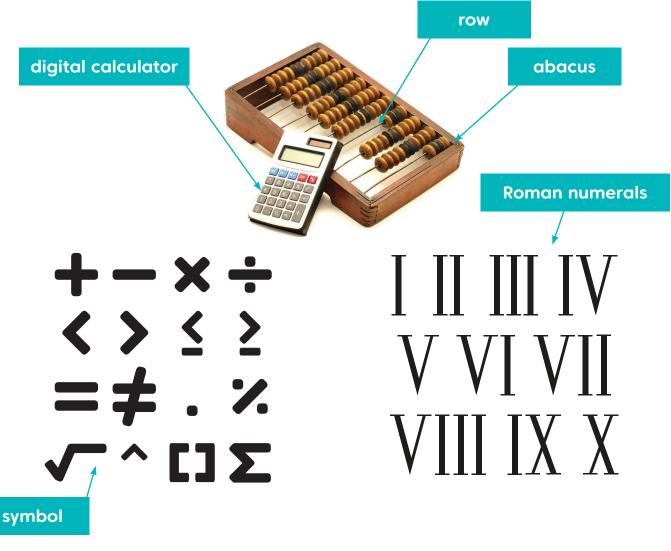
This book is about how numbers were first used and how they have changed throughout history.

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## **Think Ahead**

Look at the picture and answer the questions.



- 1. What letters can be used to show numbers?
- 2. What very old machine is used to calculate numbers?
- 3. What common, modern machine is used to do math?
- 4. What do we call these:  $+ = x \le ?$

## Vocabulary



٠	• a. notice
۲	• b. sequence
٠	• c. shell
٠	• d. marks
٠	• e. borrow
٠	• f. dimension
٠	• g. binary
٠	• h. symbol

### **B** Write the word for each definition.

	code	object	multiple of	discovery	golden ratio						
1.		findi	ng something or son	neone for the first	time						
2.		a number found in nature whereby one side is 1 and the other is 1.618									
3.		the number of times a number is increased									
4.		a thing that is not alive, like a stone or a chair									
5.		a set of numbers, symbols, or signs that are used to hide a messag									

#### **C** Choose the word that means about the same as the underlined words.

1. It is useful to have a <u>method or way of</u> doing a job to make it faster or easier.

	a. dimension of	b. system for	c. group of	d. union for								
2.	Roman numerals can be used to <u>show</u> numbers.											
	a. sell	b. find	c. notice	d. represent								
3.	. Numbers are need to write down the <u>amount</u> of things.											
	a. sequence	b. time	c. value	d. date								
4.	. Some animals will <u>be aware</u> if you take one of their eggs away from them.											
	a. notice	b. think	c. hear	d. represent								

## Comprehension

#### A Match the pictures with the correct sentences.

- a. In Italy, they used letters to show the number of something.
- b. Some cultures used marks to show numbers.
- c. An abacus uses rows of numbers to find a larger number.



1. \_\_\_\_\_







```
3. _____
```

### **B** Choose the best answer.

- 1. At what age do children start to notice numbers?
  - a. 6 months b. 12 months
  - c. 2 years d. 4 years
- 2. Why did people in Egypt and Sumeria need numbers?
  - a. To count children in schools b. To count the houses in a village
  - c. To count the animals they had d. To count the months of the year
- 3. Which system of counting is mostly used in Europe today?
  - a. The Indian system

b. The Roman system

c. The Egyptian system

d. The African system

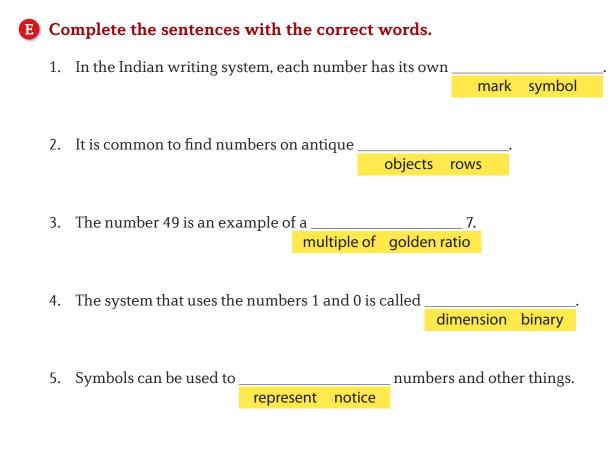


- a. An important religious building in Egypt
- b. Egyptian writing with numbers
- c. Shells that show the golden ratio
- d. Numbers used in binary
- e. A special ratio found in nature



#### **D** Read each sentence. Write "T" if it is true or "F" if it is false.

- 1. \_\_\_\_\_ Someone from China probably discovered the number zero.
- 2. \_\_\_\_\_ The Egyptian counting system was changed by the Romans.
- 3. \_\_\_\_\_ There is a ratio which can be found many in places in nature.
- 4. \_\_\_\_\_ No animals are able to count.
- 5. \_\_\_\_\_ The first numbers that were discovered are from about 15,000 years ago.



**F** Number the events in order from 1=first to 5=last.

- a. \_\_\_\_\_ The Romans made changes to the Egyptian system.
- b. \_\_\_\_\_ Binary was created for computers.
- c. \_\_\_\_\_ Europeans changed to the Indian system of numbers.
- d. \_\_\_\_\_ Marks were made on an ancient bone in Africa to show numbers.
- e. \_\_\_\_\_ The Egyptians created a system of writing.

## **Think About It**

### **A** Look in the reader to write the answers to the following 5-W questions.

Who?	What?	When?	Where?	Why?
The and needed to create a system of numbers for counting animals.	Early people made on objects to count the number of something.	ago, numbers were written on the Ishango Bone in Africa.	In the abacus is often used instead of a calculator to do math.	The Indians used for each number to make it easier to write.

### **B** Complete the sentences below with your own ideas.

		Ē	7 7			T	Ē			1	ř	H		
From t	this boo	k, I le	arned											
							 	 	 				 	·
Before	e I read t	his b	ook I	knew	r									
	, i i ou u													
														•
Now I	also kn													