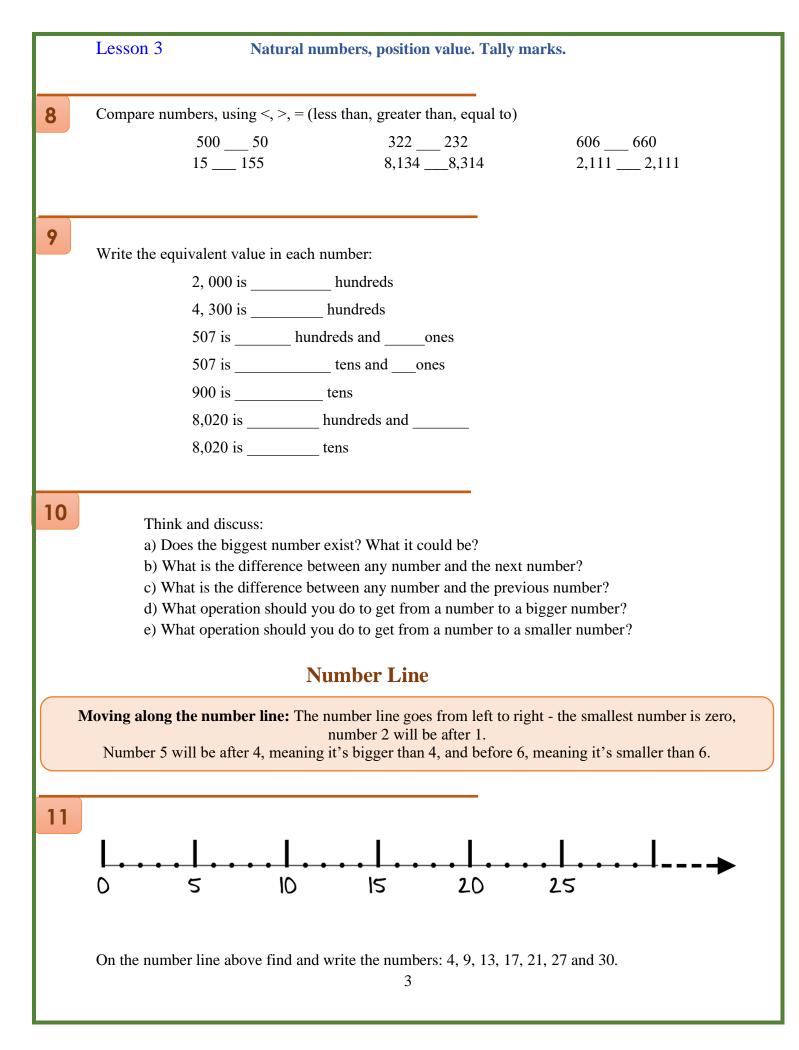
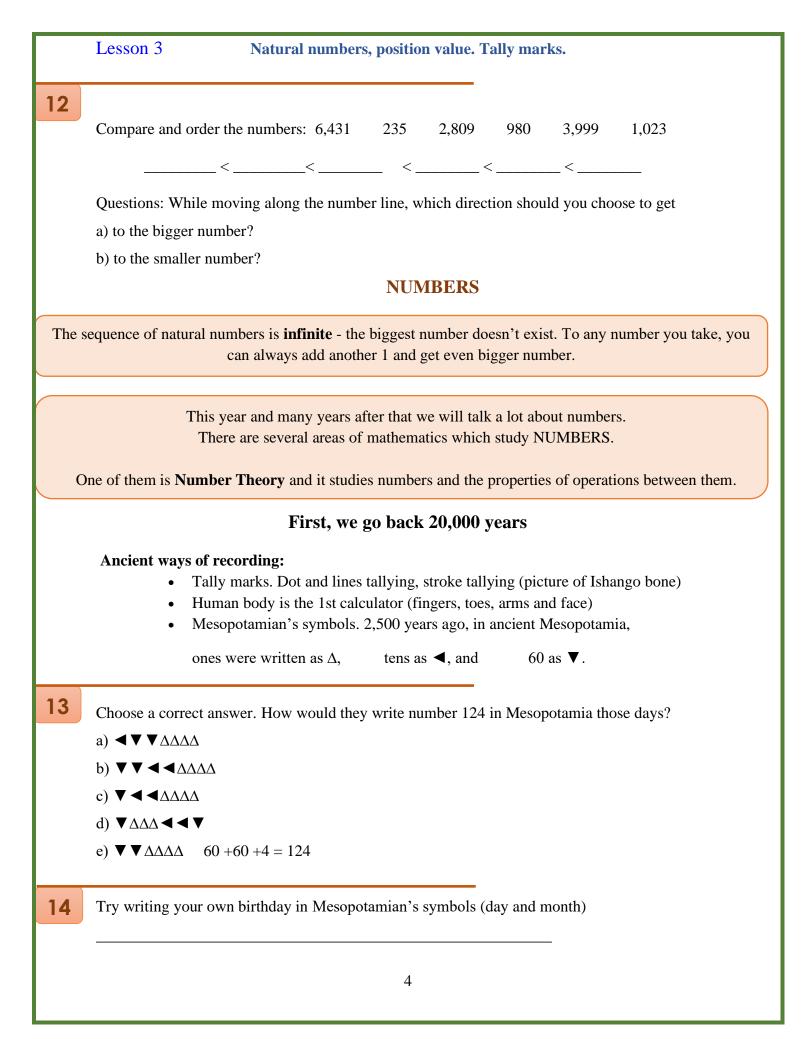
School Math 3							
Classwork 3							
WARM-UP							
1	Write down as a number expression and calculate.						
	Six more than 17 Five less than 25						
	Seven increased by 5 The product of eight and 6						
	Three times as large as 5 Five times as large as 8 Four times the sum of 5 and 6						
2	Skip-count by 2s from 14 to 26: Skip- count by 3s from 15 to 30: Skip - count by 4s from 4 to 24:						
3	Make two expressions equal: a) 17 + 12 = 20 + b) 37 + 19 = 40 + c) 79 + 24 = 80 +						
	New Material						
	 Natural numbers or Counting Numbers. How many? 1, 2, 3, 4, 5, etc. are NATURAL or Counting numbers (we use them to count objects). Any natural number is either one or a collection of as many ones as a number represents. <i>Example</i> - number 27 is a collection of 27 ones. A number is a count or measurement that is just an idea in our minds. We write or talk about numbers ing numerals such as "3" or "three." But we could also hold up three fingers or tap the table 3 times. A numeral is a symbol or name that stands for a number. <i>Examples:</i> 3, 49, eleven. 						

Lesson 3	Natural numbers, position value. Tally marks.
4 Counting out loud:	
	a) Go over all names from 1 to 10,
	b) skip-count by 10s to 100,
	c) skip-count by hundreds to 1,000
	l used to make numerals. 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 are the ten digits we use in aerals. <i>Example:</i> The numeral 51 is made up of 2 digits ("5", and "1").
combined to write any nu	today is called the base-ten, or decimal, system . It has 10 digits (0–9) that can be mber. The base-ten system was invented by Hindus in ancient India. Later, Arabs stem. For this reason, the digits 0–9 are called Hindu-Arabic numerals .
5 What number has:	
	s, 2 tens and 7 ones?s, 0 tens and 0 ones?
	ls, 0 hundreds, 2 tens and 9 ones
"ones place," a "tens place	e value of each digit is based on its position , or " place ," in a number. There is a ," a "hundreds place," and so forth. In the number 456, for example, the 4 is in the s place, the 5 is in the tens place, and the 6 is in the ones place.
	r way, the number 456 actually represents $(4 \times 100) + (5 \times 10) + (6 \times 1)$. here instead of "position value system", we will use another name - "place value system", but they both have the same meaning.
6	
Write each number i	n the expanded form. <i>Example:</i> $1,345 = 1,000 + 300 + 40 + 5$
a) 541 =	
b) 707 =	
7 Find the miss	sing place value:
	$) + \+ + 7 = 387$
	$00 + ___ + 1 = 2,141$
	$) + \ + \ = 822$
	2





Natural numbers, position value. Tally marks.

Did you Know ...?

It may be hard to imagine today that long ago people used to count using scratches (**tally marks**) on sticks or counted with the help of small stones or just with fingers. The word tally comes from Latin *talea* – twig or cutting. The word "<u>calculate</u>" comes from the Latin *calculus*, which means *small stone*. In the following we look at these ancient counting devices.

Tally sticks, made of wood or bone, have been used since ancient times as a "data recording" device or memory aid to record numbers, quantities, or even messages.

The most famous of such artefacts is possibly the Ishango bone has been dated to the Upper

Paleolithic Period around 22000 years ago. It is on permanent exhibition at the **Royal Belgian Institute of Natural Sciences**, Brussels, Belgium

The Ishango bone, dated from 22,000 years, can be considered as the oldest mathematical tool of humankind because the arrangement of the notches on three columns suggests an arithmetical intention.

Tally marks are typically clustered in groups of five and we all use it.1. Mostly used in Europe, Australia, New Zealand and North America

2. Mostly used in France, Spain and Brazil

3. This method is used for counting by 10.

Can you write 47, using each of these systems?

1.	 	 	
<i>2</i> .	 	 	
<i>3</i>		 	



| || ||| ||| ₩

