For Parents

MathSmart Guide

Contents

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Chapter 1

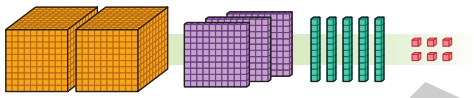
Whole Numbers to 10 000

1.1 Writing Numbers to 10 000

At this level, your child is expected to be able to write numbers up to 1000. In this unit, he or she will learn to write numbers up to 10 000. You may use drawings to help your child understand the value of thousands.

Writing Numbers in Different Forms

Place value chart: shows the positions of the digits in a number



Thousands	Hundreds	Tens	Ones
2	3	5	6
2000	300	50	6

Value of a digit

depends on its position in a number

e.g. 2 has a value of 2000.

Standard form : 2356

Expanded form : 2000 + 300 + 50 + 6

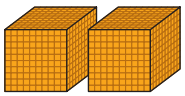
Base-ten Blocks

 = 1000

 = 100

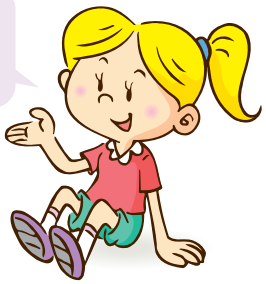
 = 10

 = 1

e.g.  → 2005 (not 25)

place holders

"0" is a place holder. Don't leave it out.



Writing Numbers in Words

Encourage your child to say the numbers they find in words.

e.g. number of pages in a book
amount of juice in a bottle

Be extra careful when there are zeros in a number.

e.g. 405 → four hundred **five**
450 → four hundred **fifty**

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1.2 Comparing and Ordering Numbers

In this unit, your child will learn to represent and compare whole numbers up to 10 000 using base-ten blocks, number lines, and digit comparisons.

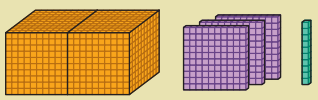
Way 1 Using Base-ten Blocks

1st Draw base-ten blocks to represent the numbers.

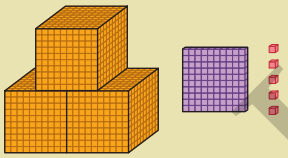
2nd Compare the number of blocks each number has. The number that has more blocks is greater.

e.g.

2310



3105



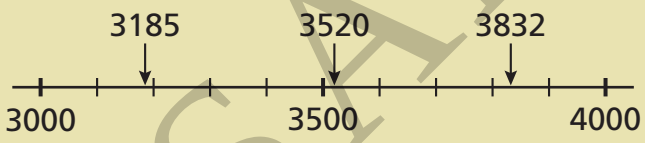
3105 has more blocks, so it is greater.

Way 2 Using a Number Line

1st Mark the numbers on a number line.

2nd The number that is farthest to the right is the greatest.

e.g.



3832 is farthest to the right, so it is the greatest.

Way 3 Comparing Digits

1st Write the numbers on a place value chart.

2nd Compare the thousands. If the digits are the same, compare the hundreds, and so on, until the digits are different.

e.g.

Th	H	T	O
3	6	9	2
3	6	8	4
same	same	9 > 8	

3692 is greater.

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