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Math

Place value, operations and measurement

Main Summary

Primary 4

Term 1

Free Sample



- Place Value
- Addition and Subtraction Strategies
- Concepts of Measurement
- Area and Perimeter
- Multiplication as a Relationship
- Factors and Multiples
- Multiplication and Division: Computation
- Order of Operations

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Unit 1

Place Value

- Welcome, math champion!
- We learn place values up to the billions.
- We write numbers in different forms, and compose and decompose them.
- Then we compare, order and round numbers.



1 Big Numbers and Changing Place Values
2 Forms of Numbers, Composing and Decomposing
3 Comparing and Ordering Big Numbers
4 Rounding Rules

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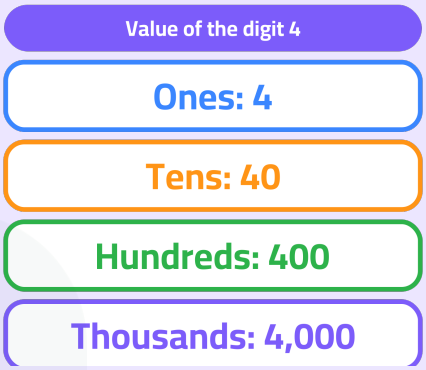
Big Numbers and Changing Place Values

Book: p. 3–6

Contents

Today's goal

Identify place values up to the billions, and explain how a digit's value changes when its place changes.



Lesson ideas

1. The **place value chart** is divided into **periods**; each period has ones, tens and hundreds.
2. The periods from the right: ones, then thousands, then millions, then billions.
3. We separate each period from the next with a comma, like 5,541,985,310.
4. The value of a digit depends on its place: in 222 each digit has a different value: 200, 20 and 2.
5. When a digit moves one place to the left, its value becomes **10 times** greater, like 7 × 10 = 70.
6. When it moves one place to the right, its value becomes one tenth of what it was.

Big Numbers and Changing Place Values

Contents

New words

Place value The position of a digit in a number.

Value of a digit The digit times the value of its place.

Period Three places: ones, tens and hundreds.

Billion One thousand millions.

Remember

Each place is 10 times the place on its right.

In my life

Egypt's population is more than one hundred million, and we read it easily when we know the periods.

Family activity

Write one digit in every place with your family and read its value each time.

Forms of Numbers, Composing and Decomposing

Today's goal

Write numbers in standard, expanded and word form, and compose and decompose numbers in more than one way.



Lesson ideas

1. **Standard form**: writing the number with digits, like 9,231,043,204.
2. **Expanded form**: writing the number as the sum of the values of its digits, like 4,035 = 4,000 + 30 + 5.
3. **Word form**: writing the number in words, like four thousand, thirty-five.
4. Zero holds an empty place, so it does not appear in the expanded form.
5. **Composing** a number: putting its parts together, like 300 + 40 + 2 = 342. **Decomposing** a number: breaking it apart in more than one way, like 342 is 34 tens and 2 ones.

Forms of Numbers, Composing and Decomposing

Contents

New words

Standard form The number written with digits.

Expanded form The sum of the values of the digits.

Word form The number written in words.

Compose / decompose Put a number together or break it apart.

Remember

Standard uses digits, expanded is a sum of values, and word form uses words.

In my life

When we write a cheque or a receipt, we write the amount in digits and in words.

Family activity

Write the price of an item in the three forms with your family.

Unit 1 · Lesson 3

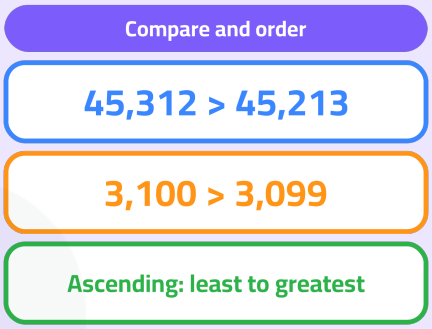
Comparing and Ordering Big Numbers

Book: p. 12–19

Contents

Today's goal

Compare big numbers using symbols and in different forms, and order them in ascending and descending order.



Lesson ideas

1. Symbols: greater than >, less than <, and equal to =.
2. The number with more digits is greater, like 10,000 > 9,999.
3. If they have the same number of digits, we compare from the left, starting with the greatest place, until two digits are different.
4. To compare two numbers in different forms, we first write them in the same form; standard form is the easiest.
5. **Ascending order**: from least to greatest. **Descending order**: from greatest to least.
6. A number line and a place value chart help us compare and order numbers.

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Comparing and Ordering Big Numbers

Book: p. 12–19

Contents

New words

Greater than The symbol >.

Less than The symbol <.

Ascending order From least to greatest.

Descending order From greatest to least.

Remember

First compare the number of digits, then compare digit by digit from the left.

In my life

When we compare the prices of two cars or two flats, we compare the digits from the left.

Family activity

Order your family members' ages in ascending, then descending order.

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Rounding Rules

Book: p. 20–22

Contents

Today's goal

Round numbers to the nearest ten, hundred and thousand, and use estimation.

Round to the nearest hundred

- 462 rounds to 500
- 449 rounds to 400
- 5 or more: add 1

Lesson ideas

1. **Rounding**: finding a number that is close to the original number and easy to calculate with.
2. Steps: find the rounding place, then look at the digit to its right.
3. If the digit to the right is 5 or more, we add 1 to the digit in the rounding place.
4. If it is less than 5, the digit in the rounding place stays the same.
5. All the digits to the right of the rounding place become zeros, like 3,462 rounds to 3,500.
6. We can also round using a number line by choosing the nearest multiple.

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Rounding Rules

Book: p. 20–22

Contents

New words

Rounding A close number that is easy to calculate with.

Estimate An answer close to the exact answer.

Rounding place The place we round to.

About Shows that a number is rounded.

Remember

5 or more: round up. Less than 5: keep the digit. The digits to the right become zeros.

In my life

If a toy costs 198 LE, we say it costs about 200 LE.

Family activity

Round shopping prices to the nearest ten pounds with your family and estimate the total.

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Free Sample

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2. A summary page at the end of every unit
3. Vocabulary & Rules, Questions & Answers, and practice exams with model answers
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