Expanded Form of Numbers

Understanding the Topic

Expanded form means breaking a number to show the value of each digit. Each digit is written as the place value it holds. It helps us understand how numbers are built using hundreds, tens, and ones. We write the number as a sum of each digit's value

Example: 452 = 400 + 50 + 2

How to Write Expanded Form

Step 1: Write the number

Step 2: Find the place value of each digit

- Hundreds × 100
- Tens × 10
- Ones × 1

Step 3: Add the values to get the expanded form

Examples with Solutions

Example 1:

Number: 235

Hundreds = 200

Tens = 30

Ones = 5

Answer: 235 = 200 + 30 + 5

Example 2:

Number: 408

Hundreds = 400

Tens = 0

Ones = 8

Answer: 408 = 400 + 0 + 8

Example 3:

Number: 671

Hundreds = 600

Tens = 70

Ones = 1

Answer: 671 = 600 + 70 + 1

Example 4:

Number: 509

Hundreds = 500

Tens = 0

Ones = 9

Answer: 509 = 500 + 0 + 9

Example 5:

Number: 792

Hundreds = 700

Tens = 90

Ones = 2

Answer: 792 = 700 + 90 + 2

Summary Points

- Expanded form shows the full value of each digit in a number
- It helps in understanding place value clearly
- Use the pattern: Hundreds + Tens + Ones
- A digit with zero is still written as 0 in expanded form
- Expanded form helps in reading and building bigger numbers easily