Unit 3 · Place Value to 1,000 Cheat Sheet

Unit 3 focus: hundreds as ten tens and the value of each digit

1 Big Idea

A hundred is ten tens. In a three-digit number, the digits tell how many hundreds, tens, and ones.

2 Important Vocabulary

hundred	Ten tens, or 100.	10 tens = 1 hundred
tens	Groups of ten.	6 tens = 60
ones	Single units.	425 has 5 ones
place value	The value of a digit because of its place.	In 425, the 4 is worth 400

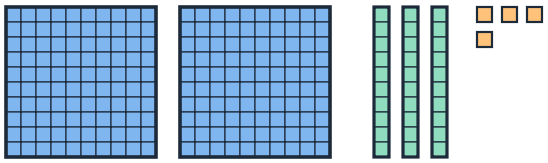
3 How It Works

What is the value of each digit in 538?

Example: 538
5 hundreds: 500
3 tens: 30
8 ones: 8

Answer: 500 + 30 + 8

4 Visual Model



2 flats, 3 rods, 4 cubes: 200 + 30 + 4 = 234.

5 ★ Remember This · Watch Out!

★ Remember this

- 10 ones = 1 ten. 10 tens = 1 hundred.
- 100, 200, ... 900 are 1 to 9 hundreds with 0 tens and 0 ones.

⚠ Watch out!

- **The digit or its value?:** the 4 in 249 is worth 40, not 4
- **Skipping the zero:** 706 is 7 hundreds, 0 tens, 6 ones

6 Try It!

1. Value of the 6 in 862
   Answer: 09
2. How many tens in 300?
   Answer: 0Ɛ

Answers are printed upside down. Turn the page to check!

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More practice: reading and writing numbers three ways

1 Big Idea

You can write the same number with digits, with words, and in expanded form.

2 Important Vocabulary

standard form	A number written with digits.	four hundred twenty-five is 425
number name	A number written in words.	425 is four hundred twenty-five
expanded form	A number written as the sum of the values of its digits.	425 = 400 + 20 + 5
digit	One of the symbols 0 to 9 used to write numbers.	425 has the digits 4, 2, and 5

3 How It Works

Write four hundred sixty-two three ways.

Example: four hundred sixty-two
Digits: 462
Expanded: 400 + 60 + 2
Words: four hundred sixty-two

Answer: 462

4 Visual Model

Standard form: 305

Number name: three hundred five

Expanded form: 300 + 5

Hundreds, tens, ones: 3 hundreds, 0 tens, 5 ones

5 ★ Remember This · Watch Out!

★ Remember this

- Use a 0 to hold an empty place.
- Write a hyphen in two-digit names like forty-six.

⚠ Watch out!

- **Writing what you hear:** three hundred eight is 308, not 3008
- **Out-of-order parts:** 6 + 400 + 20 is still 426

6 Try It!

1. Write 790 in expanded form.
   Answer: 90 + 700
2. Write 200 + 50 + 1 in digits.
   Answer: 251

Answers are printed upside down. Turn the page to check!