



Understanding place value to 1,000

Understand that a three-digit number is made of hundreds, tens, and ones

MATH · GRADE 2 · 45 MIN



TODAY

What we will do

Understand that a three-digit number is made of hundreds, tens, and ones

- 1 I can say what each digit in a three-digit number stands for.
- 2 I can build a three-digit number using hundreds, tens, and ones blocks.
- 3 I can write a three-digit number in expanded form (e.g., $243 = 200 + 40 + 3$).
- 4 I can explain why the position of a digit changes its value.

LOOK CLOSELY

How many cubes are in the jar?

A jar of small cubes is sitting on the mat. Make your best guess.



TALK Tell your partner your guess.

THE BIG IDEA

Hundreds, tens, and ones

247 means 2 hundreds, 4 tens, and 7 ones. The position of each digit decides its value.

$$247 = 200 + 40 + 7$$

Hundreds (2)

2 flat squares

worth 100 each

200 total

Tens (4)

4 rods

worth 10 each

40 total

Ones (7)

7 single cubes

worth 1 each

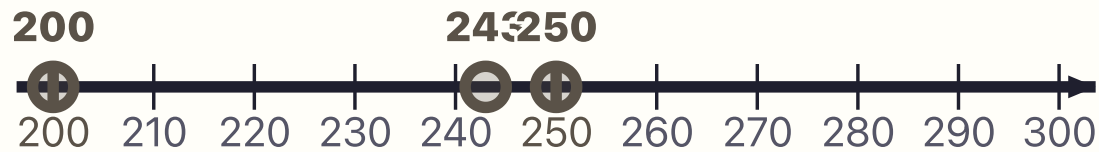
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THE PLACE VALUE RULE

A digit's place decides its value

Write $243 = 200 + 40 + 3$. The 2 means 200, the 4 means 40, and the 3 means 3.

Place value: 243



EXPANDED FORM

$243 = 200 + 40 + 3$. Try $365 = 300 + 60 + 5$.

⚠ WATCH OUT

The digit 2 in 247 means 200, not 2. Its place makes it worth 200.

Build it, write it, explain it

Emerging

picture-card build

Build the number on your picture card using blocks. Name each part.

I see ____ hundreds, ____ tens, ____ ones.

MATERIALS

base-ten blocks
picture cards
whiteboard

Write the number on your whiteboard.

Developing

build and expand

Draw a number card, build it, then write its expanded form.

____ = ____ + ____ + ____.

MATERIALS

base-ten blocks
number cards
whiteboard

Swap boards and check your partner's work.

Extending

two-way build

Build your number two different ways and write both expanded forms.

The value stays the same because ____.

MATERIALS

base-ten blocks
recording sheet
whiteboard

Show all numbers 3 digits can make.

Use your whiteboard to show your teacher when you are ready.



TODAY WE LEARNED

Three things to remember

- ✓ I can say what each digit in a three-digit number stands for.
- ✓ I can build a three-digit number using hundreds, tens, and ones blocks.
- ✓ I can write a three-digit number in expanded form, like $243 = 200 + 40 + 3$.