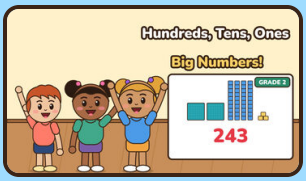
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 2 · LESSON 1

Hundreds, Tens and Ones



VIRGINIA SOL (2023)
2.NS.2

VIDEO LENGTH
4:20 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-2#G2-01

PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

2.NS.2 The student will demonstrate an understanding of the ten-to-one relationships of the base 10 number system to represent, compare, and order whole numbers up to 999.

Materials: Base-ten flats, rods and cubes, a hundreds-tens-ones mat.

Students will

- Know that 10 tens make 1 hundred.
- Read and write three-digit numbers from hundreds, tens and ones.
- Tell the value of each digit (in 243 the 4 is worth 40).
- Use zero to hold an empty place (305).

Key words

hundred	ten tens; shown by a flat
place value	what a digit is worth because of where it sits
expanded form	a number written as a sum of place values (200 + 40 + 3)
placeholder zero	a 0 that shows a place is empty

Before the video 2 minutes

Show 10 rods. Ask: “How many cubes is this? What could we call ten tens?”

What happens in the video

0:00	Welcome to second grade and today's goal: hundreds, tens and ones
0:20	Ten tens make one hundred: the flat
0:48	Building 243
1:05	Expanded form: 200 + 40 + 3
1:22	Zero holds the place: 305
1:39	Counting by hundreds to 1,000
2:01	Spot the mistake: 3 hundreds and 5 ones is 305, not 35
2:25	Your turn! Students answer during each pause (see below)
4:00	Recap and goodbye

Spot the mistake at 2:01

> **Sam:** Three hundreds and five ones. That's thirty-five!
> **Ivy:** Hmm... where did the hundreds go?
> **Mia:** Thirty-five has no hundreds! Three hundreds, zero tens, five ones. We need the zero. Three hundred five!
> **Sam:** Oops! The zero holds the tens place. Three hundred five!

- Ask: “Does 35 have any hundreds?” (No.)
- Build 3 flats and 5 cubes. Count: 100, 200, 300, 301 ... 305.
- Write it on a place-value mat with a 0 in the tens place.

Your-turn pauses students answer out loud, then the characters give the answer

TIME	QUESTION	ANSWER IN THE VIDEO
2:26	One hundred, five tens, and two ones. What number?	One hundred fifty-two!
2:39	Four hundreds, one ten, and eight ones. What number?	Four hundred eighteen!
2:52	Two hundreds, six tens, and no ones. What number?	Two hundred sixty! The zero holds the ones place.
3:07	In three hundred seventy-two, what is the seven worth?	Seventy! It's in the tens place.
3:21	Five hundreds, no tens, and seven ones. What number?	Five hundred seven!
3:34	How many hundreds are in six hundred?	Six hundreds!
3:45	Nine hundreds, nine tens, and nine ones. What number?	Nine hundred ninety-nine! The biggest three-digit number!

Tip: pause the video a little longer on any question your class finds hard, and ask a student to explain how they know.

After the video: talk about it

1. Why do we need the zero in 305?
2. What is the 6 worth in 642? In 462? In 246?
3. What is the biggest three-digit number? Why?

Go further

Place-value riddles: 'I have 4 hundreds, no tens and 6 ones. What number am I?' Students write riddles for partners.

Answer key for the practice page

1. 327
2. 604
3. 80
4. 539
5. 700 + 10 + 6
6. 2 flats, 5 rods, 1 cube

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HAKILLO KIDS · GRADE 2 · LESSON 1 · PRACTICE

Hundreds, Tens and Ones

Name: _____ **Date:** _____

1. **3 hundreds, 2 tens, 7 ones = ___**

   Answer: _____

2. **6 hundreds, 0 tens, 4 ones = ___**

   Answer: _____

3. **What is the 8 worth in 482?**

   Answer: _____

4. **Write 500 + 30 + 9 as a number.**

   Answer: _____

5. **Write 716 in expanded form.**

   Answer: _____

6. **Draw 251 with flats, rods and cubes (squares, lines and dots).**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-2#G2-01
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**