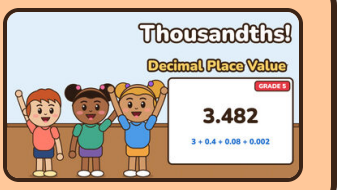
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 5 · LESSON 1

Decimal Place Value to Thousandths



VIRGINIA SOL (2023)
5.NS.1

VIDEO LENGTH
4:34 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-5#G5-01

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

5.NS.1 The student will use reasoning and justification to identify and represent equivalency between fractions (with denominators that are thirds, eighths, and factors of 100) and decimals; and compare and order sets of fractions (proper, improper, and/or mixed numbers having denominators of 12 or less) and decimals (through thousandths).

Materials: Place-value chart with decimal places, thousandths grids or base-ten blocks (flat = 1).

Students will

- Name the tenths, hundredths and thousandths places.
- Explain that each place is one tenth of the place to its left.
- Read and write decimals to thousandths.
- Write decimals in expanded form.

Key words

thousandth	one of 1,000 equal parts; the third place after the point (0.001)
decimal point	separates the whole number from the parts
expanded form	a number written as the sum of its digits' values
place value	the value a digit has because of its place

Before the video 2 minutes

Write 0.1 and 0.01 on the board. Ask: “How many hundredths make one tenth? What would one tenth of a hundredth be called?”

What happens in the video

0:00	Welcome to fifth grade and today's goal: decimals to thousandths
0:21	Each place to the right is ten times smaller: tenth, hundredth, thousandth
0:43	Reading 3.482 on a place-value chart
1:01	Expanded form: 3 + 0.4 + 0.08 + 0.002
1:18	Spot the mistake: 0.005 is five thousandths
1:40	Your turn! Students answer during each pause (see below)
4:13	Recap and goodbye

Spot the mistake at 1:18

> **Sam:** Zero point zero zero five. That's five hundredths!
> **Ivy:** Hmm... count the places after the point.
> **Mia:** One, two, three places. The five is in the thousandths place! It's five thousandths.
> **Sam:** Oops! Three places means thousandths!

- Ask: “How many places after the point is the 5 in 0.005?” (Three: thousandths.)
- Write 0.5, 0.05 and 0.005 in a place-value chart and read each aloud.
- Discuss which of the three is the smallest and why.

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

TIME	QUESTION	ANSWER IN THE VIDEO
1:41	In two point three five eight, what digit is in the thousandths place?	Eight!
1:56	In four point six one seven, what is the value of the six?	Six tenths! Zero point six.
2:11	Write five thousandths as a decimal.	Zero point zero zero five!
2:25	In nine point zero four two, what digit is in the hundredths place?	Four!
2:40	Write one and three hundred twenty-five thousandths as a decimal.	One point three two five!
2:55	In zero point seven nine one, what is the value of the one?	One thousandth! Zero point zero zero one.
3:11	Six plus zero point two plus zero point zero four plus zero point zero zero nine. What number?	Six point two four nine!
3:30	In three point five zero six, what digit is in the tenths place?	Five!
3:44	Write forty-two thousandths as a decimal.	Zero point zero four two!
3:59	In eight point one one one, which one is worth the most?	The tenths! The first one after the point.

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. How does the value of a digit change when it moves one place to the right?
2. Why do we say 'and' only at the decimal point when reading?
3. Where do thousandths show up in real life? (Sports times, measurements.)

Go further

Decimal designers: students create a decimal to thousandths, then write it in standard, word and expanded form and challenge a partner to build it on a chart.

Answer key for the practice page

1. 6
2. 9 hundredths (0.09)
3. 0.007
4. 5 + 0.3 + 0.004
5. 2.051
6. 100 times: 0.3 is 3 tenths and 0.003 is 3 thousandths; each place is ten times the next.

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HAKILLO KIDS · GRADE 5 · LESSON 1 · PRACTICE

Decimal Place Value to Thousandths

Name: _____ **Date:** _____

1. **In 4.716, which digit is in the thousandths place?**

   Answer: _____

2. **What is the value of the 9 in 2.193?**

   Answer: _____

3. **Write seven thousandths as a decimal.**

   Answer: _____

4. **Write 5.304 in expanded form.**

   Answer: _____

5. **Write as a decimal: two and fifty-one thousandths.**

   Answer: _____

6. **How many times greater is the 3 in 0.3 than the 3 in 0.003? Explain.**

   Answer: _____

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Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**