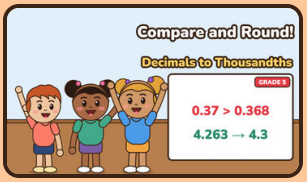
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 5 · LESSON 2

Comparing and Rounding Decimals



VIRGINIA SOL (2023)
5.NS.1

VIDEO LENGTH
4:50 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-5#G5-02

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 charts, number lines in tenths and hundredths.

Students will

- Compare decimals to thousandths by lining up decimal points.
- Use zeros to make the same number of places.
- Round decimals to the nearest whole number, tenth or hundredth.
- Explain why more digits does not mean a greater decimal.

Key words

compare	decide which number is greater or less
equivalent decimals	decimals with the same value (0.5 = 0.50 = 0.500)
round	replace a number with a nearby easier number
nearest tenth / hundredth	the place we round to

Before the video 2 minutes

Ask: “Which is more, 0.5 of a pizza or 0.489 of a pizza? How could we check?”

What happens in the video

0:00	Welcome and today's goal: comparing and rounding decimals
0:20	0.37 or 0.368: line up the points and add a zero
0:43	Rounding 4.263 to the nearest tenth: 4.3
1:01	Rounding 4.263 to the nearest hundredth: 4.26
1:17	Spot the mistake: 0.489 is not greater than 0.5
1:48	Your turn! Students answer during each pause (see below)
4:29	Recap and goodbye

Spot the mistake at 1:17

> **Sam:** Zero point five, or zero point four eight nine. Four hundred eighty-nine is bigger than five. So zero point four eight nine is greater!
> **Ivy:** Hmm... did you line up the points?
> **Mia:** Zero point five is zero point five zero zero. Five tenths beats four tenths! Zero point five is greater.
> **Sam:** Oops! More digits doesn't mean bigger. Zero point five!

- Ask: “Did we line up the decimal points?” Write 0.500 above 0.489.
- Compare from the left: 5 tenths beats 4 tenths.
- Show both on a number line from 0 to 1.

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

TIME	QUESTION	ANSWER IN THE VIDEO
1:49	Zero point four five two, or zero point four two five. Which is greater?	Zero point four five two! Five hundredths beats two hundredths.
2:08	Round three point seven four two to the nearest tenth.	Three point seven! Four hundredths rounds down.
2:23	Zero point six, or zero point five nine nine. Which is greater?	Zero point six! Six tenths beats five tenths.
2:41	Round two point four six eight to the nearest hundredth.	Two point four seven! Eight thousandths rounds up.
2:57	Round eight point five one to the nearest whole number.	Nine! Five tenths rounds up.
3:11	One point zero three, or one point three. Which is less?	One point zero three!
3:26	Round zero point three five five to the nearest tenth.	Zero point four! Five hundredths rounds up.
3:42	Zero point zero eight, or zero point zero eight zero. Which is greater?	Neither! They are equal.
3:58	Round five point zero nine one to the nearest hundredth.	Five point zero nine! One thousandth rounds down.
4:15	Round twelve point four nine to the nearest whole number.	Twelve! Four tenths rounds down.

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 can we write extra zeros at the end of a decimal?
2. Round 7.649 to the nearest tenth and to the nearest hundredth.
3. When would rounding a decimal be useful?

Go further

Decimal number line: students place ten decimals (to thousandths) on a long class number line and round each to the nearest tenth.

Answer key for the practice page

1. 0.462 > 0.46
2. 0.405, 0.45, 0.5
3. 6.3
4. 6.28
5. 10
6. Ivy: 3.50 > 3.48 (5 tenths beats 4 tenths).

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HAKILLO KIDS · GRADE 5 · LESSON 2 · PRACTICE

Comparing and Rounding Decimals

Name: _____ **Date:** _____

1. **Compare: 0.462 ___ 0.46 (write >, < or =)**

   Answer: _____

2. **Order from least to greatest: 0.5, 0.45, 0.405**

   Answer: _____

3. **Round 6.284 to the nearest tenth.**

   Answer: _____

4. **Round 6.284 to the nearest hundredth.**

   Answer: _____

5. **Round 9.5 to the nearest whole number.**

   Answer: _____

6. **Mia jumped 3.48 meters and Ivy jumped 3.5 meters. Who jumped farther? Explain.**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-5#G5-02
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**