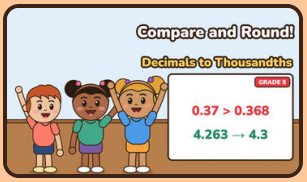
HAKILLO KIDS · TEACHER GUIDE · COMMON CORE EDITION · GRADE 5 · LESSON 2

Comparing and Rounding Decimals



COMMON CORE
5.NBT.A.3.b, 5.NBT.A.4

VIDEO LENGTH
4:50 · Virginia SOL edition also available

WATCH THE LESSON FREE
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PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

5.NBT.A.3.b Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.

5.NBT.A.4 Use place value understanding to round decimals to any place.

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: _____

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