



DECIMALS TO THOUSANDTHS

Mastery Bundle — Read, Write, Compare & Round

Grade 5 • 4-in-1 Mastery Packet • CCSS 5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.A.4

36-Card Matching Sort • 24 Comparison Task Cards • 24 Rounding Task Cards •
Reasoning Lab
Anchor Charts • Vocabulary Foldable • 4 Exit Tickets • 16-Question Quiz

Teacher lesson scripts, answer keys, and CCSS alignment included for every component.

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Place-Value Chart — To the Thousandths

Reference chart + student copy. The decimal point is read "and."

Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths
3	4	7	•	3	9	2
			•			
			•			

347.392 → "three hundred forty-seven AND three hundred ninety-two thousandths." The name of the last digit (2) gives the name of the whole decimal part: thousandths.

Notice & Wonder (Turn & Talk)

- 1 tenth = 10 hundredths = 100 thousandths. Each place is 10 times the place to its right.
- 0.073 has 0 tenths — the zero is a placeholder so the 7 stays in the hundredths place.
- Equivalent decimals: $0.6 = 0.60 = 0.600$ (annexing zeros never changes value).

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Activity 1 • Student Notes: 3 Representations

Anchor reference — glue into math notebook.

Form	Example	How I Read/Write It
Base-Ten Numeral	347.392	Digits + decimal point
Number Name	three hundred forty-seven and three hundred ninety-two thousandths	Whole part + "and" + decimal part read as whole + last place name
Expanded Form	$3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$	Each digit $\times$ its place value

Try It (whiteboards):

a) Write 231.46 in number name.	Answer: two hundred thirty-one and forty-six hundredths
b) Write 0.618 in expanded form.	Answer: $6 \times (1/10) + 1 \times (1/100) + 8 \times (1/1000)$
c) Write "ninety-four and five tenths" as a numeral.	Answer: 94.5

Golden Rules: (1) "AND" only at the decimal point. (2) The LAST digit's place names the decimal part. (3) Zeros are placeholders — they hold places, never skip them.

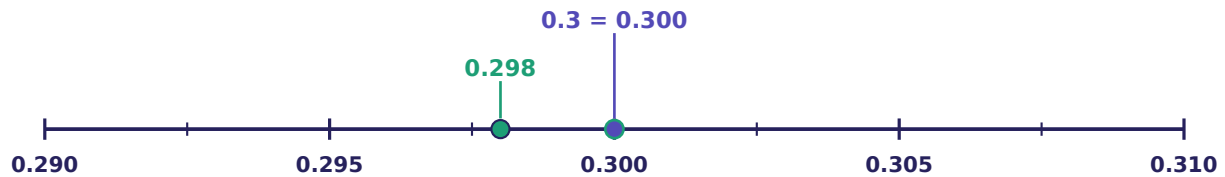
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Reasoning Lab Poster

WHY is $0.3 > 0.298$? A place-value and number-line proof.

Proof 1 — Same Units

$0.3 = 0.300 = 300$ thousandths. $0.298 = 298$ thousandths. Since $300 > 298$, $0.3 > 0.298$. Comparing in the SAME unit (thousandths) makes it a whole-number comparison: 300 vs 298.



Proof 2 — Number Line

On the line above, numbers grow to the RIGHT. 0.300 sits to the right of 0.298, so $0.3 > 0.298$. The distance between them is $0.300 - 0.298 = 0.002$ — only two thousandths apart, yet one is still greater!

Big Idea: the number of digits NEVER decides size. The PLACE of the first different digit decides.

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Anchor Chart: FIND • NEIGHBOR • DECIDE

Round 8.467 to the nearest HUNDREDTH.

Ones	DECIMAL	Tenths	HUNDREDTHS (FIND)	THOUSANDTHS (NEIGHBOR)
8	•	4	6	7

Step 1 — FIND

Underline the digit in the rounding place: the 6 in the hundredths place.

Step 2 — NEIGHBOR

Circle the digit ONE place right: the 7 in the thousandths place.

Step 3 — DECIDE

7 is "five or more," so the hundredths digit grows: $6 \rightarrow 7$. Drop the rest. $8.467 \approx 8.47$.

Chant: "Find the place. Check its neighbor. Five or more? Raise the score! Four or less? Let it rest!"

Cascade reminder: $0.995 \rightarrow$ hundredth: $9 + 1 = 10$ hundredths = 1 tenth... result 1.00. Nines carry!

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Decimals to Thousandths Quiz (1-8)

Circle the letter. 16 items total.

1) How is 0.407 read in number name?

A) forty-seven thousandths B) four hundred seven thousandths C) four hundred seven hundredths D) forty-seven hundredths

2) Which is 'fifty-three and eight hundredths' in base-ten numeral?

A) 53.8 B) 53.08 C) 53.008 D) 5.308

3) Which is 24.162 in expanded form?

A) $2 \times 10 + 4 \times 1 + 1 \times (1/10) + 6 \times (1/100) + 2 \times (1/1000)$ B) $2 \times 10 + 4 \times 1 + 6 \times (1/10) + 1 \times (1/100) + 2 \times (1/1000)$ C) $2 \times 10 + 4 \times 1 + 1 \times (1/100) + 6 \times (1/1000) + 2 \times (1/10)$ D) $2 \times 100 + 4 \times 10 + 1 \times (1/10) + 6 \times (1/100) + 2 \times (1/1000)$

4) 0.5 ○ 0.498

A) > B) < C) = D) cannot be determined

5) 8.26 ○ 8.260

A) > B) < C) = D) cannot be determined

6) 0.108 ○ 0.18

A) > B) < C) = D) cannot be determined

7) Round 2.76 to the nearest tenth.

A) 2.7 B) 2.8 C) 3 D) 2.76

8) Round 2.76 to the nearest whole.

A) 2 B) 2.7 C) 3 D) 2.8

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WHAT'S INSIDE THIS BUNDLE?

Decimals to Thousandths Mastery Bundle • Grade 5 • 44-page resource

4-IN-1

Mastery sequence

36

Matching cards

24

Comparison cards

24

Rounding cards

4

Exit tickets

16

Quiz items

TEACH

Teacher lesson scripts • think-alouds • pacing guidance

Activities 1–4 with clear instructional routines.

PRACTICE

Card sort • comparison reasoning lab • rounding stations

Hands-on practice with reusable student components.

REFERENCE

Place-value chart • 3-representation notes • vocabulary foldable

Visual supports for decimals through thousandths.

ASSESS

Exit tickets • quiz • answer keys • standards map

Formative and summative checks with self-check support.

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CCSS ALIGNMENT

5.NBT.A.3a • 5.NBT.A.3b • 5.NBT.A.4 • MP.1 • MP.6 • MP.7

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