

Luna's Space Adventure

Grade 5 · Decimals to thousandths · 5.NBT.A.3

Name _____

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Words to decimals Thousandths need three places after the point.

eighty-three and four hundred seventeen thousandths

twenty-one and nine hundred seventy thousandths

ninety-three and five hundred eight thousandths

twenty-nine and seven hundred thirty thousandths

Compare Line up the points. Add zeros if it helps.

0.28 ○ 0.28

0.337 ○ 0.3

0.829 ○ 0.325

0.103 ○ 0.1

0.543 ○ 0.5

0.074 ○ 0.355

0.707 ○ 0.71

0.289 ○ 0.3

0.168 ○ 0.682

Expanded form Write it as a sum: $3 + 0.4 + 0.07 + 0.002$.

3.725 =

7.011 =

7.811 =

Order them Least to greatest.

0.937, 0.539, 0.299, 0.034

0.367, 0.733, 0.734, 0.159

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Words to decimals Thousandths need three places after the point.

eighty-three and four hundred seventeen thousandths

83.417

twenty-one and nine hundred seventy thousandths

21.970

ninety-three and five hundred eight thousandths

93.508

twenty-nine and seven hundred thirty thousandths

29.730

Compare Line up the points. Add zeros if it helps.

0.28 $\boxed{=}$ 0.28

0.337 $\boxed{>}$ 0.3

0.829 $\boxed{>}$ 0.325

0.103 $\boxed{>}$ 0.1

0.543 $\boxed{>}$ 0.5

0.074 $\boxed{<}$ 0.355

0.707 $\boxed{<}$ 0.71

0.289 $\boxed{<}$ 0.3

0.168 $\boxed{<}$ 0.682

Expanded form Write it as a sum: $3 + 0.4 + 0.07 + 0.002$.

3.725 =

$3 + 0.7 + 0.02 + 0.005$

7.011 =

$7 + 0.0 + 0.01 + 0.001$

7.811 =

$7 + 0.8 + 0.01 + 0.001$

Order them Least to greatest.

0.937, 0.539, 0.299, 0.034

0.034, 0.299, 0.539, 0.937

0.367, 0.733, 0.734, 0.159

0.159, 0.367, 0.733, 0.734

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GUIDE

① What this sheet practises

Reading, writing and comparing decimals to the thousandths place: from words, in expanded form, and in order from least to greatest.

② A problem from the sheet, worked out

Words to decimals Thousandths need three places after the point.

eighty-three and four hundred seventeen thousandths

83.417

twenty-one and nine hundred seventy thousandths

21.970

ninety-three and five hundred eight thousandths

93.508

twenty-nine and seven hundred thirty thousandths

29.730

How: The part after “and” goes after the point, and its last word names the last place: thousandths need three places. To compare, line up the points and compare from the left.

③ Words to know

thousandths the third place after the point

expanded form a number written as the sum of its places

compare decide which is greater

$>$ $<$ $=$ greater than, less than, equal to

④ Watch for

- Leaving out zeros: forty-two thousandths is 0.042, not 0.42.
- Thinking 0.097 is more than 0.1 because 97 is more than 1.
- Giving a digit the wrong place in expanded form, like 0.8 for the 8 in 7.583.

⑤ Where it fits

BEFORE

4.NF.C.7

Compare decimals to hundredths.

THIS SHEET

5.NBT.A.3

Read, write and compare decimals to thousandths.

NEXT

5.NBT.A.4

Round decimals to any place.

⑥ Helping at home

Write two decimals, like 0.4 and 0.35, and ask which is greater. Writing 0.4 as 0.40 makes the comparison easier to see.