

Grade 5 · Reading, Comparing and Rounding Decimals · Worksheet

Common Core 5.NBT.A.3, 5.NBT.A.4 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

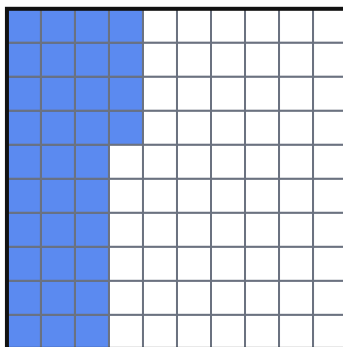
These 26 problems practice reading and writing decimals to thousandths in standard, word and expanded form (5.NBT.A.3), and comparing and rounding them (5.NBT.A.3b and 5.NBT.A.4). Figures with hundredths grids and number lines support the early problems.

Write each answer neatly, keep decimal points lined up when you compare, and always check the digit to the right before you round.

Grade 5 Common Core: 5.NBT.A.3 · 5.NBT.A.4

Problem 1: Reading a hundredths grid

Write the decimal shown by the shaded part of the grid, then write it in words.



34 squares are shaded out of 100.

Problem 2: Decimals in words

- Write 6.08 in words.
- Write 0.275 in words.

Problem 3: Words to numerals

- Write "twelve and four hundred seven thousandths" as a decimal.
- Write "nine and eight tenths" as a decimal.

- c. Write "fifty-two hundredths" as a decimal.

Problem 4: Value of each digit

In the number 5.936, write the value of each digit.

- a. the 9
- b. the 3
- c. the 6

Problem 5: Expanded form with fractions

The chart shows 4.725. Write 4.725 in expanded form using fractions.

Ones	tenths	hundredths	thousandths
Number: 4.725			
4	7	2	5

Each digit is in its own place.

Problem 6: Expanded form practice

- a. Write 0.368 in expanded form using fractions.
- b. Write 15.04 in expanded form using fractions.

Problem 7: From expanded form to a decimal

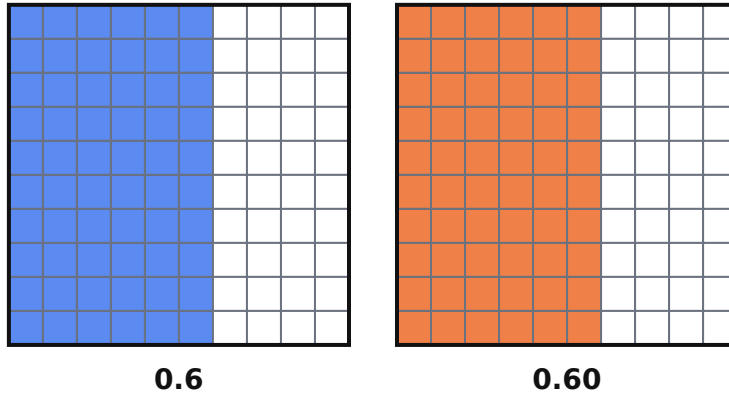
- a. Write $7 \times 10 + 2 \times 1 + 5 \times \frac{1}{10} + 9 \times \frac{1}{1000}$ as a decimal.
- b. Write $6 \times 1 + 4 \times \frac{1}{100}$ as a decimal.

Problem 8: Expanded form with decimals

Write 3.472 as a sum of each digit times its place value written as a decimal.

Problem 9: Same amount?

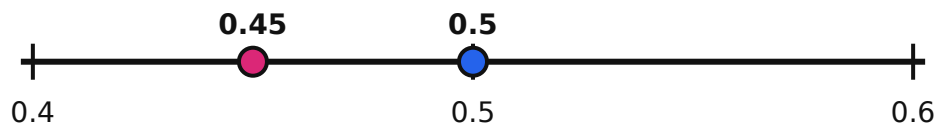
The grids show 0.6 and 0.60. Compare the numbers using $<$, $>$ or $=$.



Six columns and sixty squares.

Problem 10: Comparing tenths and hundredths

Compare 0.45 and 0.5 using $<$, $>$ or $=$. The number line may help.



Which point is farther right?

Problem 11: Comparing to thousandths

Compare each pair using $<$, $>$ or $=$.

- a. 3.482 ? 3.428
- b. 0.707 ? 0.77
- c. 12.09 ? 12.090
- d. 5.1 ? 5.099

Problem 12: Close decimals

Compare each pair using $<$, $>$ or $=$.

- a. 0.5 ? 0.499
- b. 2.30 ? 2.3
- c. 0.08 ? 0.1

Problem 13: Ordering decimals

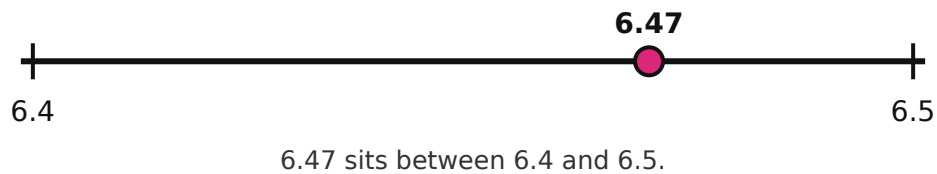
Write the numbers from least to greatest: 0.72, 0.702, 0.27, 0.7.

Problem 14: Ordering from greatest to least

Write the numbers from greatest to least: 4.09, 4.9, 4.089, 4.091.

Problem 15: Rounding to a tenth and a whole number

Round 6.47 to the nearest tenth and to the nearest whole number. The number line shows 6.47.



Problem 16: Three roundings

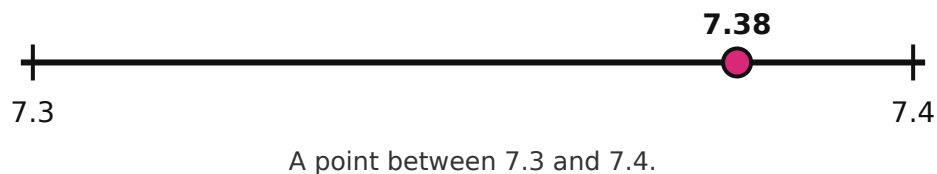
Round 3.846 to the nearest whole number, tenth and hundredth.

Problem 17: Rounding up to a new whole

Round 0.995 to the nearest hundredth, tenth and whole number.

Problem 18: Rounding on a number line

The number line shows 7.38. Between which two tenths does 7.38 lie, and what is 7.38 rounded to the nearest tenth?



Problem 19: Halfway cases

- Round 249.5 to the nearest whole number.
- Round 18.249 to the nearest hundredth.
- Round 4.05 to the nearest tenth.

Problem 20: Find the error

Aisha says that $0.38 > 0.4$ because 38 is greater than 4. Explain her mistake and compare the numbers correctly.

Problem 21: Sprint times

In a 100-yard dash, Diego runs 12.48 seconds, Mei runs 12.5 seconds and Noah runs 12.39 seconds. Write the times from least to greatest and tell who won.

Problem 22: Gas price

A gas station posts a price of \$3.459 per gallon. Round the price to the nearest cent and to the nearest dime.

Problem 23: Rainfall

Monday had 0.35 inch of rain, Tuesday had 0.305 inch and Wednesday had 0.3 inch. List the days from most rain to least rain. Then round Tuesday's rain to the nearest tenth.

Problem 24: Mixed nuts

Mei buys a bag of mixed nuts that weighs 2.675 pounds. Write the weight rounded to the nearest tenth and to the nearest hundredth of a pound.

Problem 25: Batting averages

In a Little League season, Jamal bats 0.310, Liam bats 0.301, Ethan bats 0.315 and Sofia bats 0.299. List the averages from greatest to least and name the player with the best average.

Problem 26: Ribbons

Sofia has three ribbons that are 3.125 yards, 3.25 yards and 3.2 yards long. (a) Write the lengths from least to greatest. (b) Round each length to the nearest tenth of a yard.