



Decimal Place Value

Math-Ms.Harrietha

Behind the decimal point each place value ends with "ths".

9 0 3 . 4 1 7

hundreds

tens

ones

tenths

hundredths

thousandths

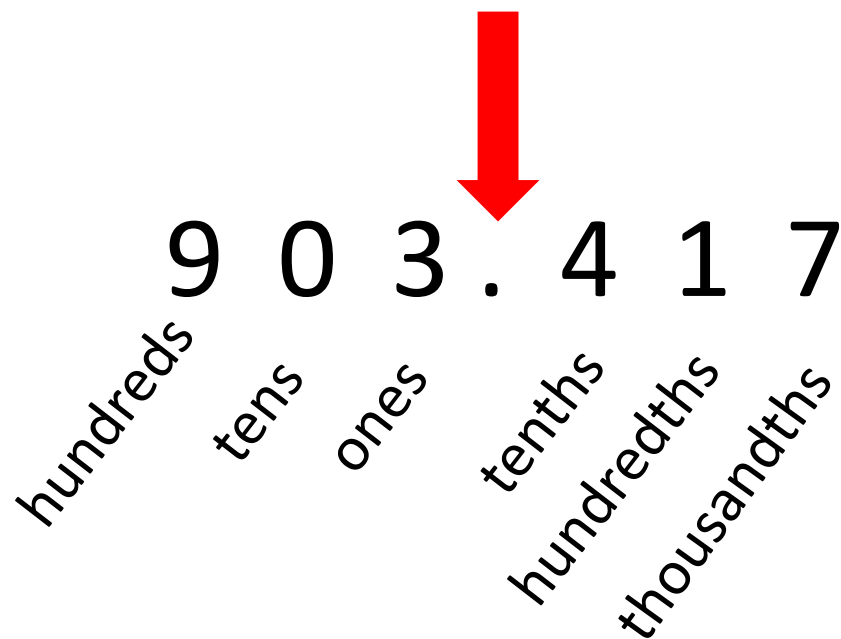


When reading a number with a decimal the
decimal point is read as
and.

9 0 3 . 4 1 7
hundreds tens ones tenths hundredths thousandths



In a decimal, the farther a number is to the right, the smaller its value.



Tenths

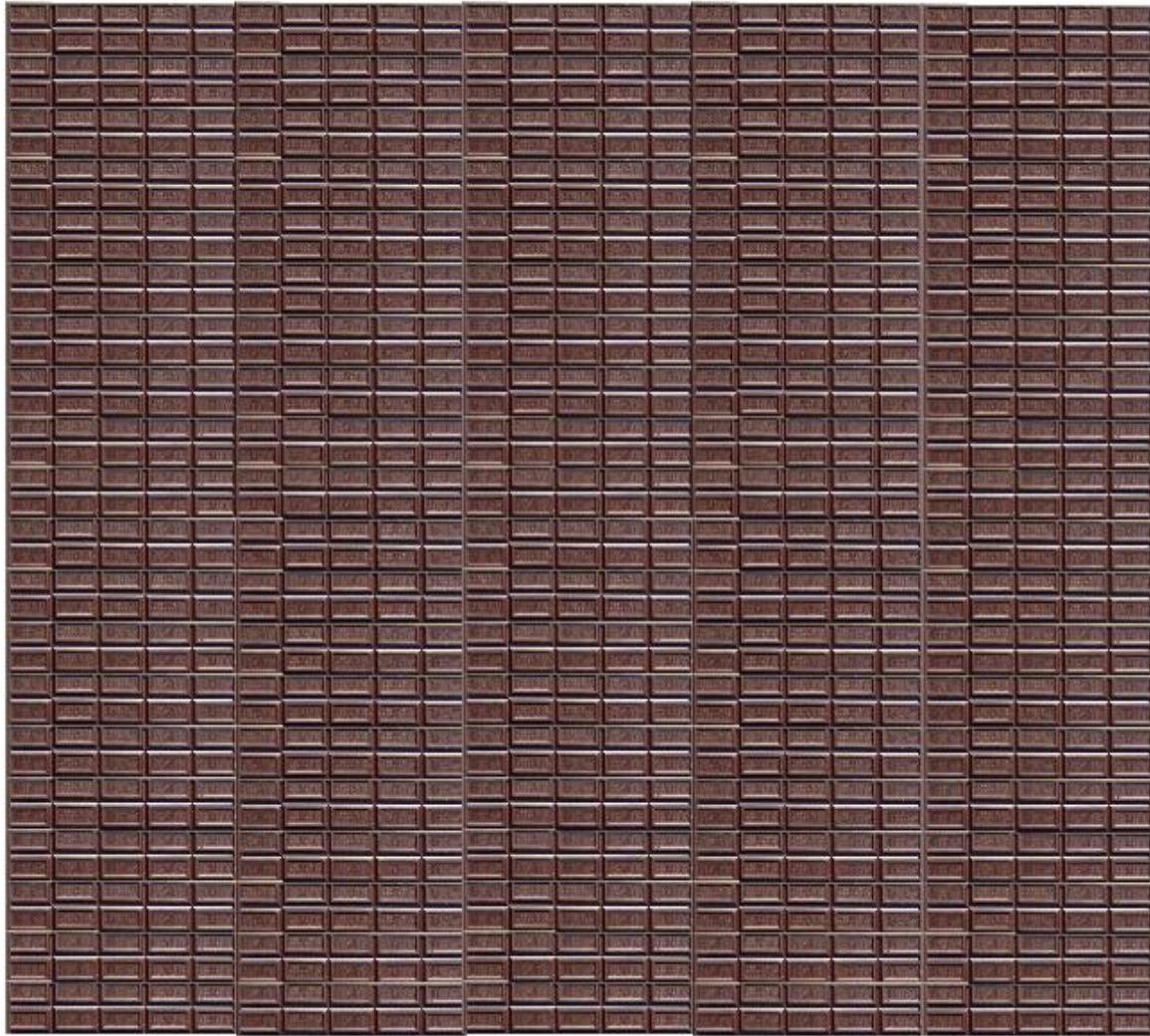


0. _____



Hundredths

0. _____



Thousandths

0. _____

Reading and Writing Decimal Numbers

3.268

We read this number as:

Three and 2 hundred sixty-eight thousandths

We write this number in:

standard form: 3.268

expanded form: $3 + 0.2 + 0.06 + 0.008$

Reading and Writing Decimal Numbers

0.013

We read this number as:

Zero and thirteen thousandths

We write this number in:

standard form: 0.013

expanded form: $0.01+0.003$

Decimals and Money

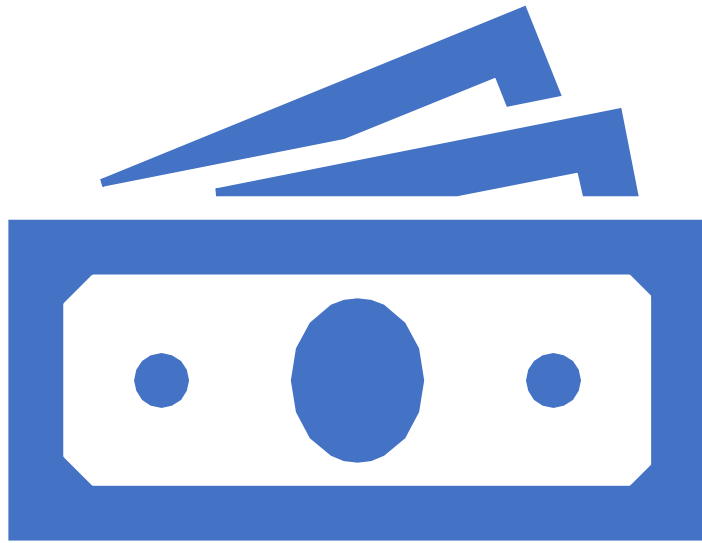
Most of the decimals we see deal with money. Money is written out in decimal form when you have more than whole dollars. We know decimals mean more than the whole dollar.

For example:

\$5.33

\$430.18

\$16.03



Underline the Digit

1) Underline the digit in thousandths place.

- a) 756.218 b) 3.672 c) 821.053

2) Underline the digit in ones place.

- a) 2.70 b) 13.586 c) 562.1

3) Underline the digit in hundreds place.

- a) 197.8 b) 823.40 c) 261.349

4) Underline the digit in tenths place.

- a) 423.16 b) 5.2 c) 235.46

5) Underline the digit in tens place.

- a) 729.85 b) 962.5 c) 80.403

6) Underline the digit in hundredths place.

- a) 473.529 b) 12.896 c) 3.602





Decimals in our World

What are some examples of where we see decimal numbers in the world besides money?

Decimal Numbers

A guitar pick is 0.73 mm thick.

STANDARD FORM:

0.73 mm

EXPANDED FORM:

0.7+ 0.03

WORD FORM:

Zero and seventy three hundredths.



Decimal Numbers

The fairy fly is the world's smallest insect.
It is 0.0139 cm long.

STANDARD FORM:

0.0139 cm

EXPANDED FORM:

$0.01 + 0.003 + 0.0009$

WORD FORM:

Zero and one hundred thirty nine ten thousandths.



Comparing Decimal Numbers

Write six decimal numbers on your piece of paper.

Trade your numbers with a classmate and order your partners from least to greatest and greatest to least. Use your place value chart to help.

Sanitize your hands before and after trading papers.



Comparing Decimals

L251

Compare each pair of decimals using the symbols $>$, $<$ or $=$.

1) 11.038 11.038

2) 39.26 39.16

3) 1.22 1.221

4) 25.001 25.001

5) 30.359 29.349

6) 3.43 3.425

Ordering Decimals

L2S1

A) Write each set of decimals in increasing order.

1) 21.018, 21.105, 21.003, 21.888, 21.357

2) 18.19, 22.38, 38.27, 12.24, 22.77

B) Write each set of decimals in decreasing order.

1) 26.8, 15.5, 15.9, 36.7, 26.2

2) 8.132, 10.11, 19.258, 16.2, 10.4
