


Decimals

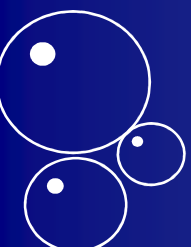
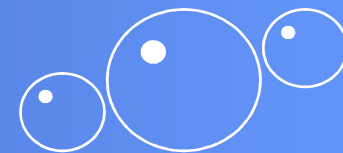


By Erika Whitesides



NC Standard Course of Study

- 1.01 Develop number sense for rational numbers 0.01 through 99,999.
 - Connect model, number word, and number using a variety of representations.
- 



Where have you seen decimals?

Money



Where have you seen decimals?

Sports Statistics



Where have you seen decimals?

Measurements






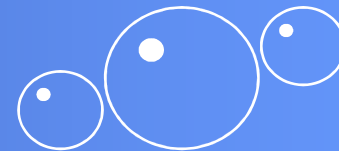
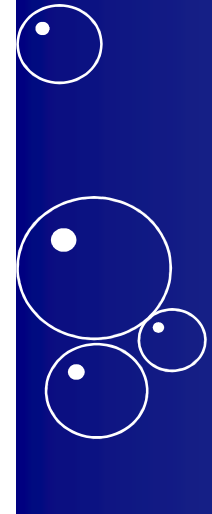
What words contain the prefix dec-?

decade

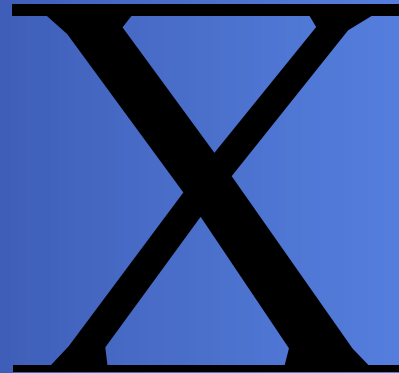
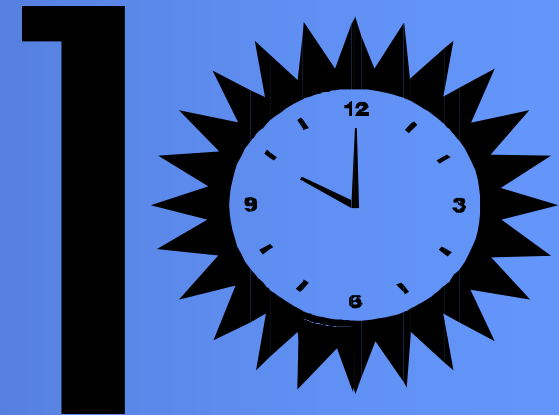
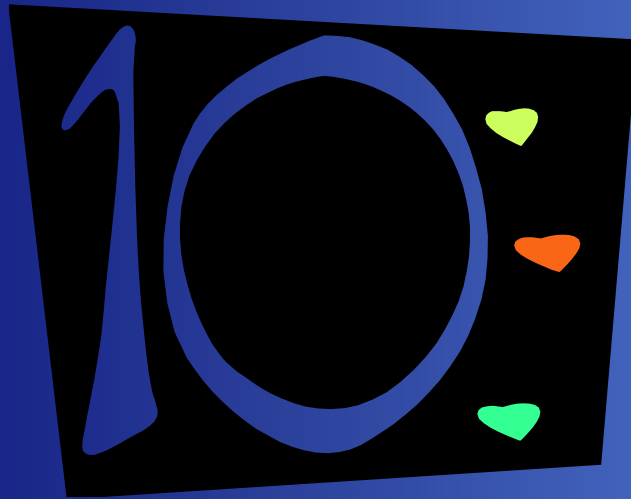
decimeter



decimal



What does dec- mean?



What are decimals?

Decimals are numbers that include fractional parts using denominators that are powers of ten.



The image shows a close-up of a document with a table of numbers and fractions. The numbers are arranged in rows and columns, with some fractions written as mixed numbers or improper fractions. The text is slightly blurred, but the following table represents the visible content:

1520	18	18 1/4	18 1/4	-5/16
1760	47 7/8	17 3/8	17 5/16	-1/8
1507	28 1/4	45	u45 3/4	+1/4
5647	55 3/4	26 1/8	u28 1/8	+1 3/4
7653	28 1/2	54 3/16	u55 7/16 + 1 13/16	
3608	23 3/4	28 1/8	28 1/4	-5/16
4725	66 3/4	23 1/4	23 3/8	-3/8
2609	34 1/2	65 7/8	66	-3/4
216	37 5/16	33 5/8	34	-5/16
3118	51	37 1/4	37 5/16	-5/16
342	10 1/2	49 7/8	u49 7/8	-5/16
437	31 1/2	10 7/8	10 7/8	-5/16
6338	31 1/2	31 1/8	31 1/8	-5/16
122				

What is a decimal point?

A decimal point is to the right of the ones place.



Where is the tenths place?

The tenths place is to the right of the decimal point.

0.1



Where is the hundredths place?

The hundredths place is to the right of the tenths place.

0.01



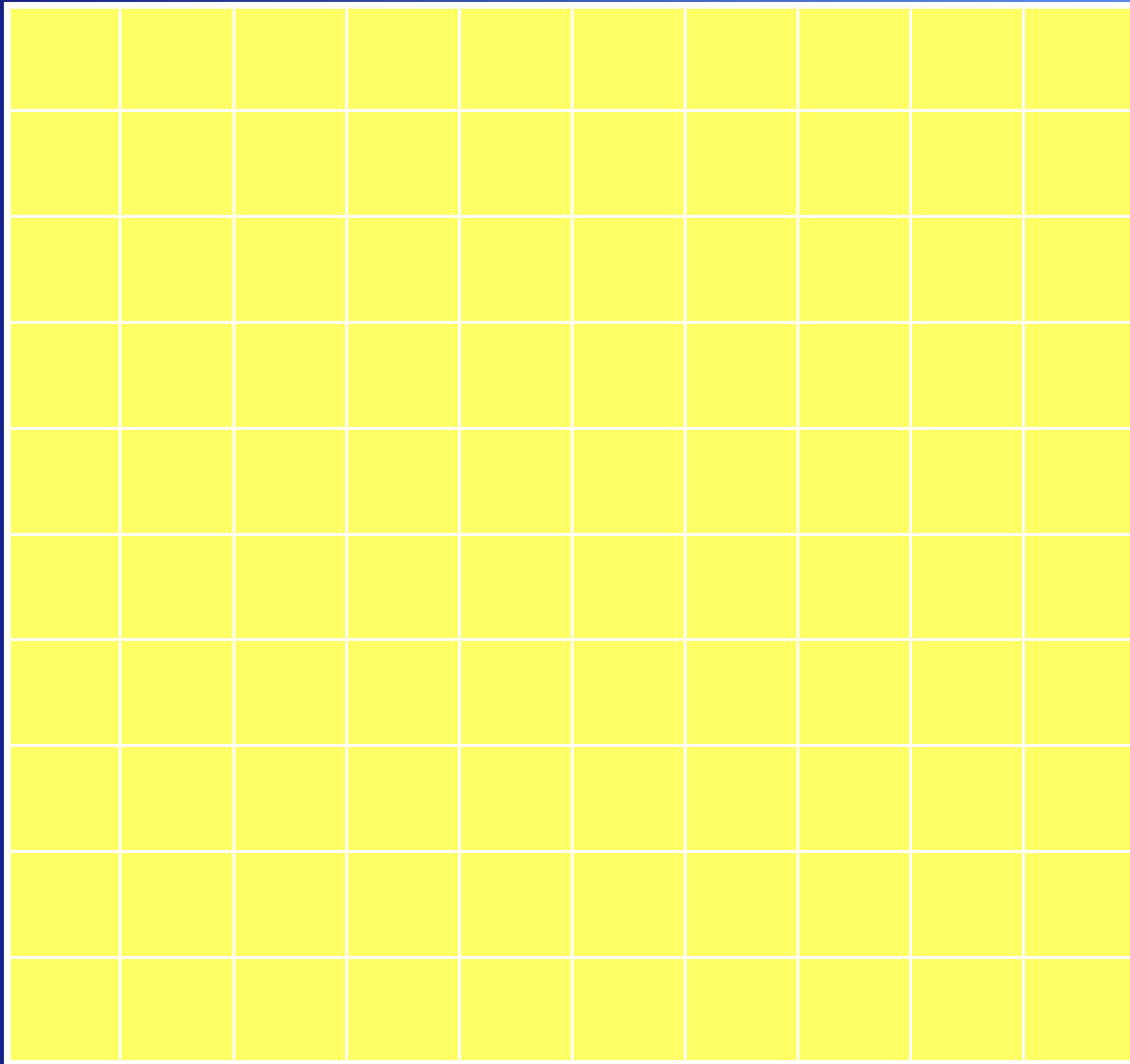
Decimal Place Value Chart

0.01

ones

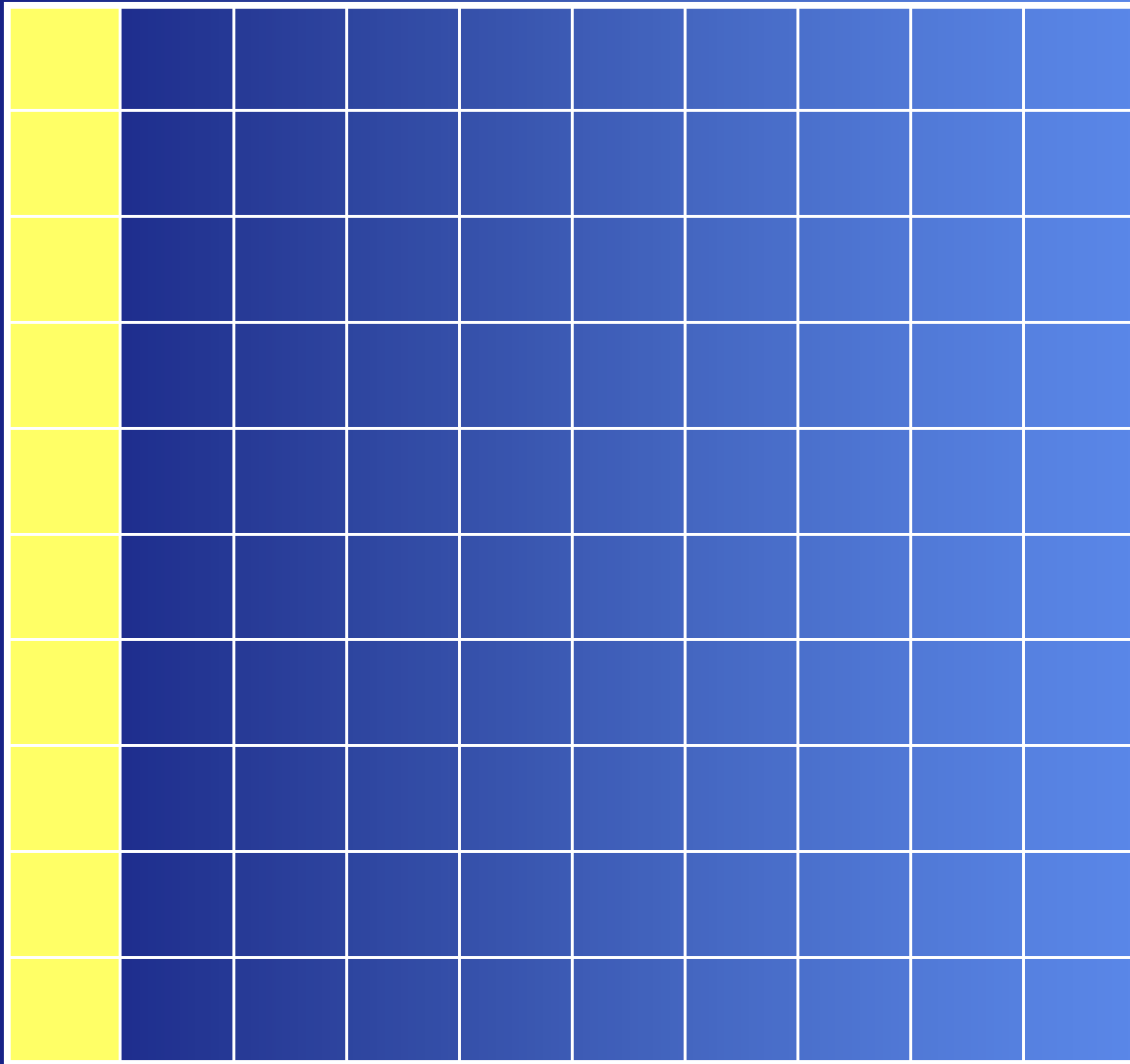
tenths

hundredths



1.0

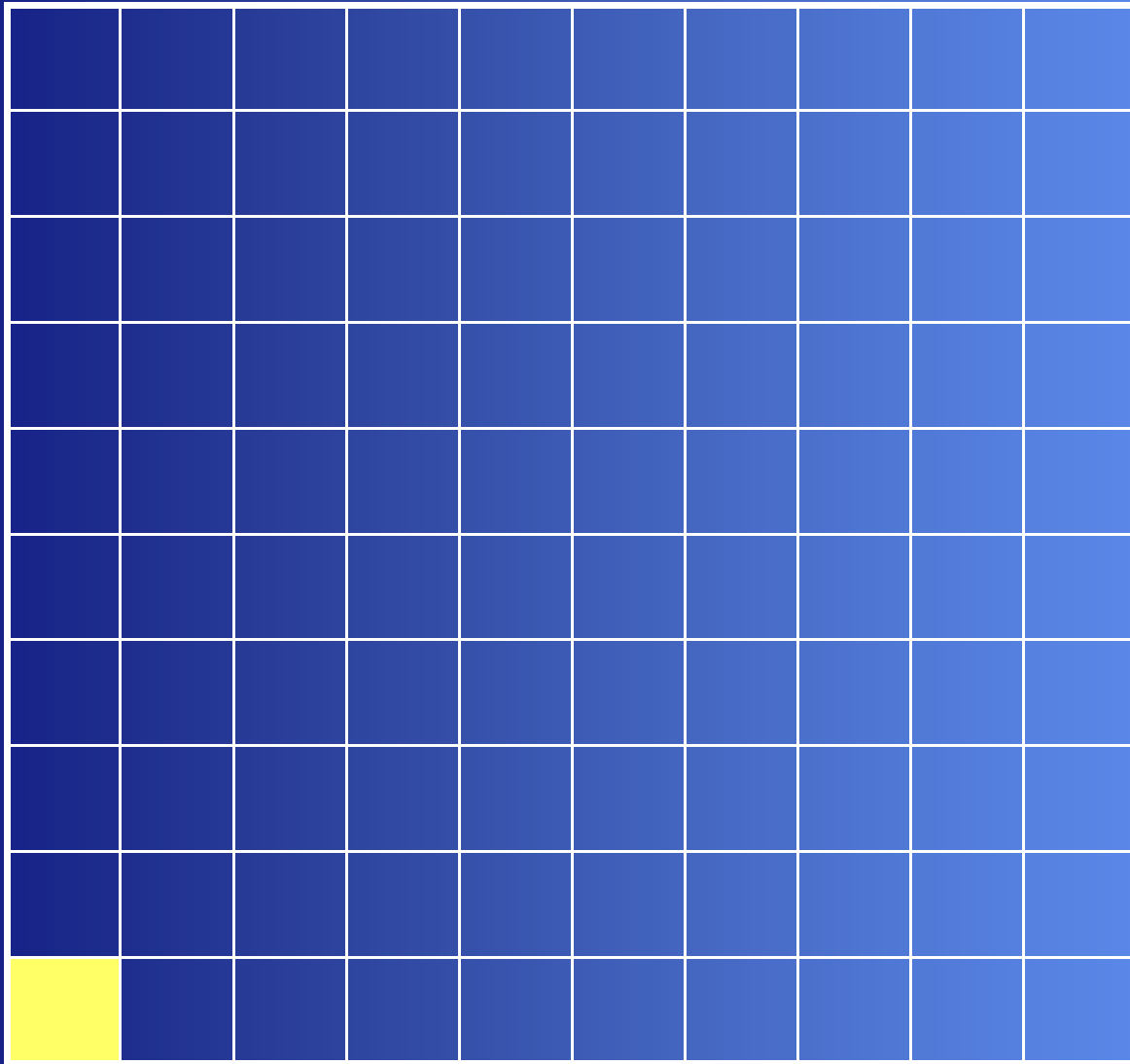
1 whole



0.1

one tenth

$\frac{1}{10}$



0.01

one

hundredth

$\frac{1}{100}$