

Dimensions Math

Grade 4 Letter Home #12

Chapter 12 Decimals

Dimensions Math
Letters Home

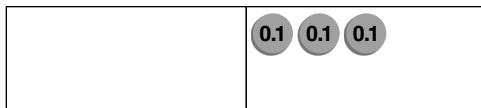
Home Connection

In Chapter 12, your child will extend their understanding of place value by learning about decimals to the hundredths place. They will relate decimals to fractions. Finally, your child will compare, order, and round decimals.

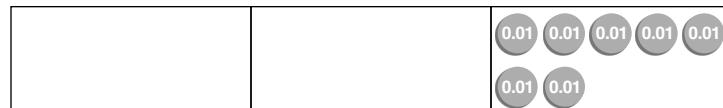
Decimals and Fractions

Decimals can be expressed as fractions with a denominator of 10 or 100.

Ex: $0.3 = \frac{3}{10}$ $0.07 = \frac{7}{100}$ $0.17 = \frac{17}{100}$



Ones	Tenths
0	• 3

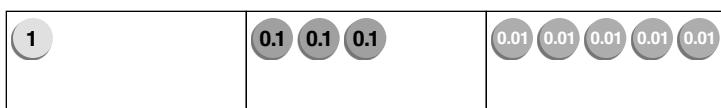


Ones	Tenths	Hundredths
0	• 0	7

There are 0 ones and 3 tenths in 0.3.

There are 0 ones, 0 tenths, and 7 hundredths in 0.07.

Decimals, like whole numbers, can be written in expanded form:



$$1\frac{35}{100} = 1 + \frac{3}{10} + \frac{5}{100}$$

$$1.35 = 1 + 0.3 + 0.05$$

Ones	Tenths	Hundredths
1	• 3	5

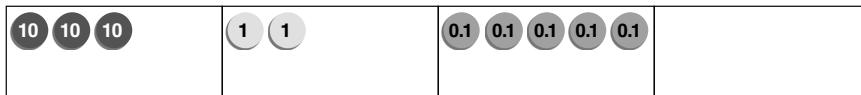
Your child will learn to convert a decimal to a fraction by expressing the part that is less than 1 as a fraction, and then simplifying.

$$3.05 = 3\frac{5}{100} = 3\frac{1}{20}$$

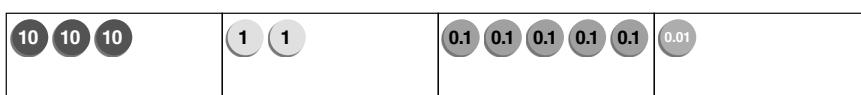
Your child will also learn to convert a fraction to a decimal by finding an equivalent fraction with a denominator of 10 or 100:

$$\frac{3}{4} = \frac{75}{100} = 0.75$$

To compare two decimal numbers, compare each digit starting with the ones in the highest place.



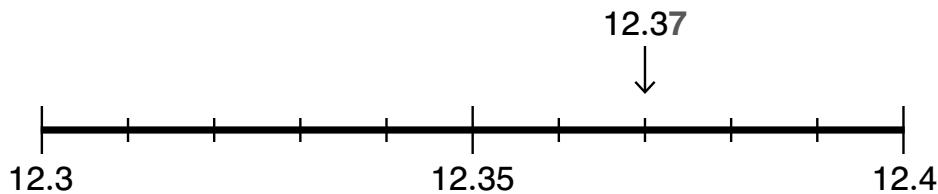
Tens	Ones	Tenths	Hundredths
3	2	5	



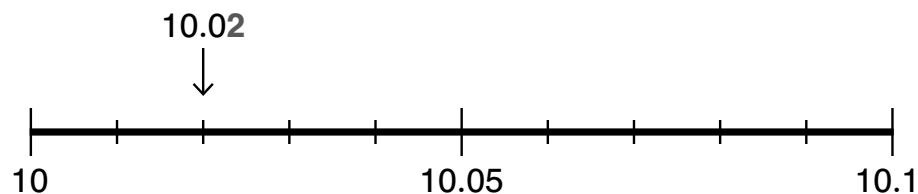
Tens	Ones	Tenths	Hundredths
3	2	5	1

Comparing decimals can be confusing, since a decimal with more digits can be less than one with fewer digits. If we think of 32.5 as 32.50, we can see that 32.51 is greater than 32.5.

To round a decimal to the nearest tenth, look at the digit in the hundredths place.



12.37 rounded to 1 decimal place is 12.4.



10.02 rounded to 1 decimal place is 10.0.

What can we do at home?

- Decimals can be fun to practice at home because they can be found everywhere we look. Grocery stores, gas station signs, and coupon mailers are some examples. Ask your child to read the decimals aloud, using tenths and hundredths appropriately. This will be great practice.