

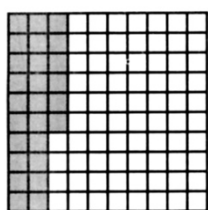
Maths revision – decimal fractions (01/05/20)

Even though, you might think we have not practiced working with decimal fractions for a while now, to tell you the truth – we have, and quite often. All the money problems that you have solved so far have actually been tasks with decimal fractions.

As you might remember, the meaning of Fraction is a Part of a whole, while the Decimal fraction is just another way of showing a Part of a whole. So, every time you go to the market or the grocery store and pay by cash, you are actually working with decimal fractions. One dollar is made out of one hundred cents, so if we had to represent 25 cents as a fraction, we would write $\frac{25}{100}$, because it is 25 cents out of 100 cents. And if we had to show the same amount as a decimal fraction we would write 0.25.

0 here represents dollars, of which we have none, 2 represents the tenths, of which we have 2, and lastly 5 represents the hundredths, of which we have 5. So, if we had to name this decimal fraction we would say: zero ones (no whole dollars), two tens (twenty cents) and 5 hundredths (five cents).

This diagram shows 26 hundredths shaded or $\frac{26}{100}$.



Fractions can be written as decimals.
As a decimal, this amount is written as:

Units	Tenths	Hundredths
0	2	6

Now that we know that $\frac{26}{100}$ can be also written as 0.26, I would like you to write the following fractions as decimal fractions:

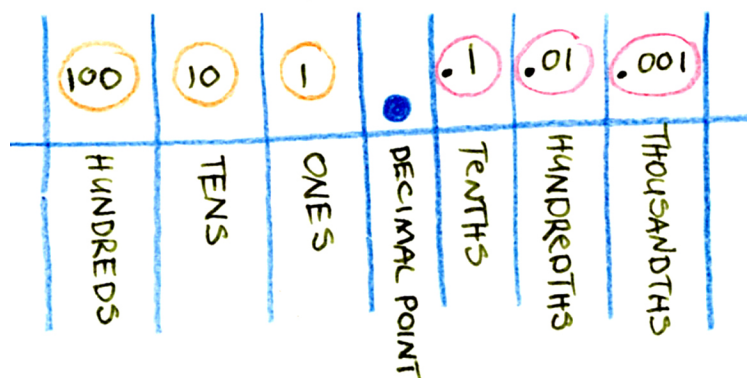
$$\frac{17}{100} =$$

$$\frac{72}{100} =$$

$$\frac{36}{100} =$$

$$\frac{96}{100} =$$

When working with decimal fractions, it is very important to remember place value (you might remember the story about the old Greek man who was a woodchopper, and how he had various sized sheds to keep his wood).



Now I would like you to look at the example below and then write the numbers in the place value chart.

A thousandth is a tenth of a hundredth.

Units		Tenths	Hundredths	Thousandths
2	•	2	5	6

This number has 2 units, 2 tenths, 5 hundredths and 6 thousandths.

1 Write these numbers in the place value chart:

	Thousands	Hundreds	Tens	Units	Tenths	Hundredths	Thousandths
a five tens, 3 units and eight tenths					•		
b 7 hundreds, 8 tens, four units, two tenths and 3 hundredths					•		
c nine tens, 8 tenths and 4 thousandths					•	0	
d 6 hundreds, eight tenths, 4 hundredths and 3 thousandths			0	0	•		
e four units, nine tenths and eight hundredths					•		
f three units, four tenths and two hundredths					•		
g 2 tens, 3 units, four hundredths and six thousandths					•	0	
h 8 thousandths					•	0	0