

# Converting Decimal Tenths and Hundredths to Fractions

Converting decimals tenths and hundredths to fractions couldn't be easier - all you need is a place value chart! To convert from a decimal into a fraction, we write the number on the place value chart then **read the number off the place value chart**.

<b>0.7 =</b>	<b>Ones</b>		<b>tenths</b>	No ones and 7 tenths. So the fraction is... $\frac{7}{10}$ !
	<b>0</b>	.	<b>7</b>	

A. Write these decimals into the place value chart. Read the place value and write the decimal as a fraction. The first question has been completed for you.

Decimal	Place Value Chart			How many tenths?
0.7	Ones		tenths	7 tenths = $\frac{7}{10}$
	0	.	7	
0.3	Ones		tenths	
		.		
zero point two	Ones		tenths	
		.		
0.4	Ones		tenths	
		.		
0.1	Ones		tenths	
		.		
0.9	Ones		tenths	
		.		
zero point eight	Ones		tenths	
		.		

Working with hundredths is similar except we need to include the tenths too. There are 10 hundredths in a tenth.

<b>0</b>		<b>t</b>	<b>hundredths</b>	We have 73 hundredths - therefore $\frac{73}{100}$
<b>0</b>	.	<b>7</b>	<b>3</b>	

B. Complete the table.

Decimal	Place Value Chart				How many hundredths?
0.73	Ones		tenths	hundredths	73 hundredths = $\frac{73}{100}$
	0	.	7	3	
0.20	Ones		tenths	hundredths	
	0	.			
zero point four six	Ones		tenths	hundredths	
	0	.			
nought point nought 4	Ones		tenths	hundredths	
	0	.			
0.42	Ones		tenths	hundredths	
	0	.			
0.66	Ones		tenths	hundredths	
	0	.			
0.99	Ones		tenths	hundredths	
	0	.			

C. What do you think this decimal is as a fraction?

0		t	h	th
0	.	0	0	7

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## Answers

A. Write these decimals into the place value chart. Read the place value and write the decimal as a fraction. The first question has been completed for you.

Decimal	Place Value Chart			How many tenths?
0.7	Ones		tenths	7 tenths = $\frac{7}{10}$
	0	.	7	
0.3	Ones		tenths	3 tenths = $\frac{3}{10}$
	0	.	3	
zero point two	Ones		tenths	2 tenths = $\frac{2}{10}$
	0	.	2	
0.4	Ones		tenths	4 tenths = $\frac{4}{10}$
	0	.	4	
0.1	Ones		tenths	1 tenth = $\frac{1}{10}$
	0	.	1	
0.9	Ones		tenths	9 tenths = $\frac{9}{10}$
	0	.	9	
zero point eight	Ones		tenths	8 tenths = $\frac{8}{10}$
	0	.	8	

B. Complete the table.

Decimal	Place Value Chart				How many hundredths?
0.73	Ones		tenths	hundredths	<b>73 hundredths = <math>\frac{73}{100}</math></b>
	0	.	7	3	
0.20	Ones		tenths	hundredths	<b>20 hundredths = <math>\frac{20}{100}</math> or <math>\frac{2}{10}</math></b>
	0	.	2	0	
zero point four six	Ones		tenths	hundredths	<b>46 hundredths = <math>\frac{46}{100}</math></b>
	0	.	4	6	
nought point nought 4	Ones		tenths	hundredths	<b>4 hundredths = <math>\frac{4}{100}</math></b>
	0	.	0	4	
0.42	Ones		tenths	hundredths	<b>42 hundredths = <math>\frac{42}{100}</math></b>
	0	.	4	2	
0.66	Ones		tenths	hundredths	<b>66 hundredths = <math>\frac{66}{100}</math></b>
	0	.	6	6	
0.99	Ones		tenths	hundredths	<b>99 hundredths = <math>\frac{99}{100}</math></b>
	0	.	9	9	

C. What do you think this decimal is as a fraction?

0		t	h	th
0	.	0	0	7

**7 thousandths =  $\frac{7}{1000}$**