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**.

0.7 =	Ones		tenths
	0	.	7

No ones and 7 tenths. So the fraction is... $\frac{7}{10}$!

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.

O		t	hundredths
0	.	7	3

We have 73 hundredths - therefore $\frac{73}{100}$

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?

O		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 = $\frac{3}{10}$
		.		
zero point two	Ones		tenths	2 tenths = $\frac{2}{10}$
		.		
0.4	Ones		tenths	4 tenths = $\frac{4}{10}$
		.		
0.1	Ones		tenths	1 tenth = $\frac{1}{10}$
		.		
0.9	Ones		tenths	9 tenths = $\frac{9}{10}$
		.		
zero point eight	Ones		tenths	8 tenths = $\frac{8}{10}$
		.		

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	20 hundredths = $\frac{20}{100}$ or $\frac{20}{10}$
	0	.			
zero point four six	Ones		tenths	hundredths	46 hundredths = $\frac{46}{100}$
	0	.			
nought point nought 4	Ones		tenths	hundredths	4 hundredths = $\frac{4}{100}$
	0	.			
0.42	Ones		tenths	hundredths	42 hundredths = $\frac{42}{100}$
	0	.			
0.66	Ones		tenths	hundredths	66 hundredths = $\frac{66}{100}$
	0	.			
0.99	Ones		tenths	hundredths	99 hundredths = $\frac{99}{100}$
	0	.			

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

O		t	h	th
0	.	0	0	7

7 thousandths = 7/1000