

Year 4 Block 8 Unit: Decimals A

Key Vocabulary:

tenths hundredths equivalent decimal point place value divide

What will I know by the end of this unit?

Tenths as fractions:

$\frac{4}{10}$
What fraction is not shaded? $\frac{6}{10}$

Tenths as decimals:

8 tenths $\frac{8}{10}$ 0.8

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Tenths on a place value chart:

Ones			Tenths			
1	1	1	0.1	0.1	0.1	0.1
			0.1	0.1	0.1	

There are 3 wholes and 7 tenths.
The number is 3.7

Tenths on a number line:

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

$\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$ $\frac{9}{10}$ $\frac{10}{10}$

Divide by 10:

$32 \div 10 = 3.2$

Tens	Ones	Tenths
10	1	1
10		
10		

$\div 10$

Tens	Ones	Tenths
	3	2

Hundredths as fractions:

$\frac{32}{100} < \frac{4}{10} \frac{40}{100}$

Hundredths as decimals:

$\frac{3}{100}$ $\frac{3}{10}$ 1 $\frac{10}{100}$ $\frac{13}{100}$

$\frac{30}{100}$

Hundredths on a place value chart:

What number is represented in the place value chart?

Ones	Tenths	Hundredths
1	1	1
1	0.1	0.01
1	0.1	0.01

There are 3 ones.
There are 2 tenths.
There are 5 hundredths.
The number represented is 3.25

Divide by 100:

$3 \div 10 = 0.3$

Tens	Ones	Tenths
	0	3

$3 \div 100 = 0.03$

Tens	Ones	Tenths	Hundredths
	0	0	3