

Overview

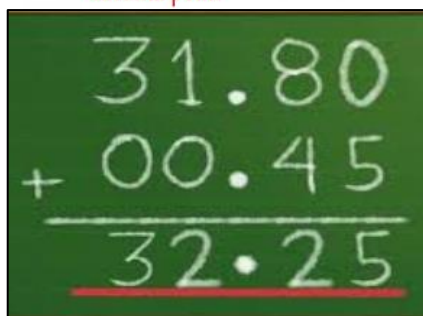
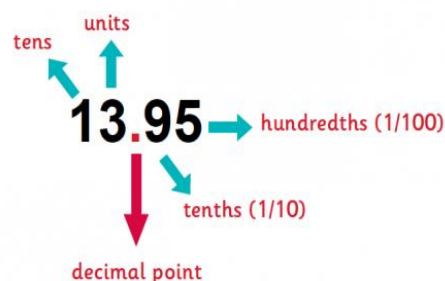
In our unit on decimals we learn:

- Recognise tenths & hundredths.
- Tenths hundredths as decimals
- Tenths/ hundredths as decimals
- Tenths/ hundredths on a place value grid
- Divide 1 or 2 digits by 10/ 100
- Tenths/ hundredths on a number line

Definition: Decimals are a way of showing numbers that are not whole (a bit like fractions). Decimals are 'in between' whole numbers, e.g. 8.3 is in between 8 and 9.

This learning is important because...

it helps us to understand the parts that can make up a whole amount. This is needed in lots of areas of life (e.g. sharing, cooking, making).



Decimals and Place Value

Place Value Chart

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
3	8	2	6	4	5

Decimal point – separates the whole number from the fractional part.

Dividing by 10

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
		2	8		

→

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
			2	8	

When dividing by 10, move digits one place to the right along the place value chart.

Dividing by 100

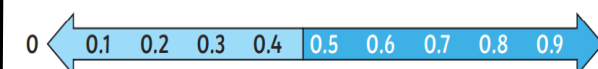
Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
		2	8		

→

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
				2	8

When dividing by 100, move digits two places to the right along the place value chart.

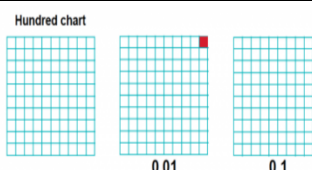
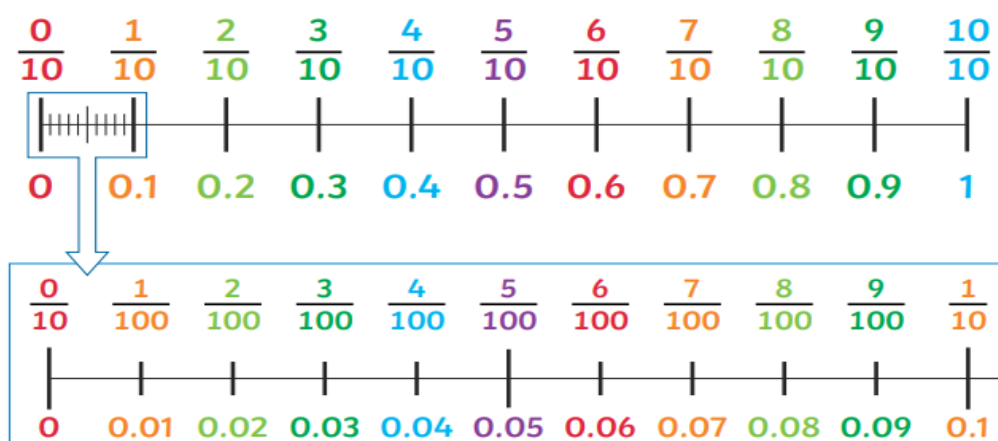
Rounding Decimals



-If the tenths digit is 4 or below, we round down to the nearest whole number.

-If the tenths digit is 5 or above, we round up to the nearest whole number.

Tenth and Hundredth Equivalency

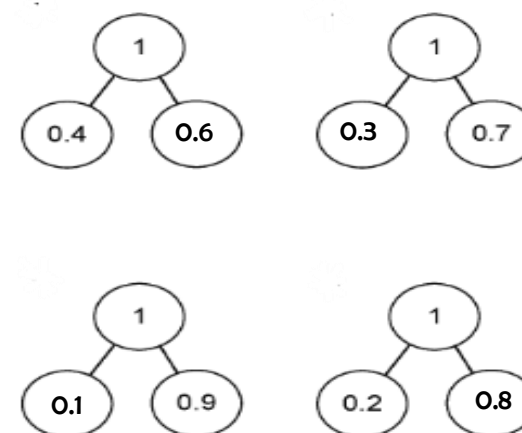


- | | |
|----------------------------------|---|
| One hundredth = $1/100 = 0.01$ | Six hundredths = $6/100 = 0.06$ |
| Two hundredths = $2/100 = 0.02$ | Seven hundredths = $7/100 = 0.07$ |
| Three hundredth = $3/100 = 0.03$ | Eight hundredths = $8/100 = 0.08$ |
| Four hundredths = $4/100 = 0.04$ | Nine hundredths = $9/100 = 0.09$ |
| Five hundredths = $5/100 = 0.05$ | Ten hundredths = One tenth = $10/100 = 0.1$ |

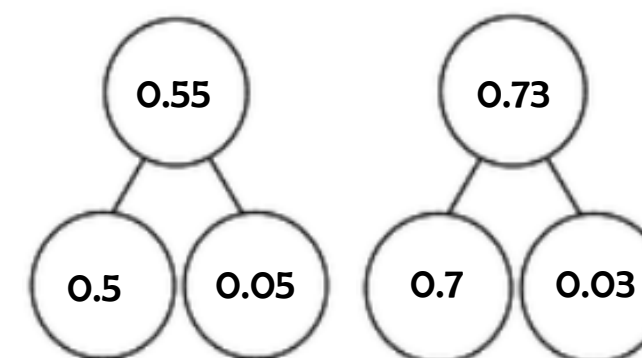
- One tenth = $1/10 = 0.1$
- Two tenths = $2/10 = 0.2$
- Three tenths = $3/10 = 0.3$
- Four tenths = $4/10 = 0.4$
- Five tenths = $5/10 = 0.5$
- Six tenths = $6/10 = 0.6$
- Seven tenths = $7/10 = 0.7$
- Eight tenths = $8/10 = 0.8$
- Nine tenths = $9/10 = 0.9$
- Ten tenths (1 whole) = 1

Partitioning One Whole/ Tenths and Hundredths

Partitioning One Whole



Partitioning into Tenths/ Hundredths



Key Vocabulary

Decimal Fraction Tenth Hundredth Part-Whole Model Rounding Decimal Point Equivalent Place Value