

Key Vocabulary	Definition
Decimal	a number in a number system based on 10
Tenth	A fraction, one part of 10 equal parts (1/10)
Decimal tenth	One part of 10 equal parts (0.1)
Hundredth	one part of one hundred divided into 100 parts (1/100)
Decimal hundredth	One part of 100 equal parts (0.01)
Decimal equivalents	two decimal numbers that are equivalent (e.g. 5/10 and 50/100)
Part-whole model	The relationship between the whole and its parts
Rounding	to change a number to a value which is easier to work with
Decimal point	Separates the whole number from the fractional part (5.5)
Place value	The position of a digit in a number

Tenths and Hundredths

Tenths	$\frac{0}{10}$	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	$\frac{10}{10}$
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1

Hundredths	$\frac{0}{100}$	$\frac{1}{100}$	$\frac{2}{100}$	$\frac{3}{100}$	$\frac{4}{100}$	$\frac{5}{100}$	$\frac{6}{100}$	$\frac{7}{100}$	$\frac{8}{100}$	$\frac{9}{100}$	$\frac{10}{100}$
	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1

Fraction and Decimal Equivalents

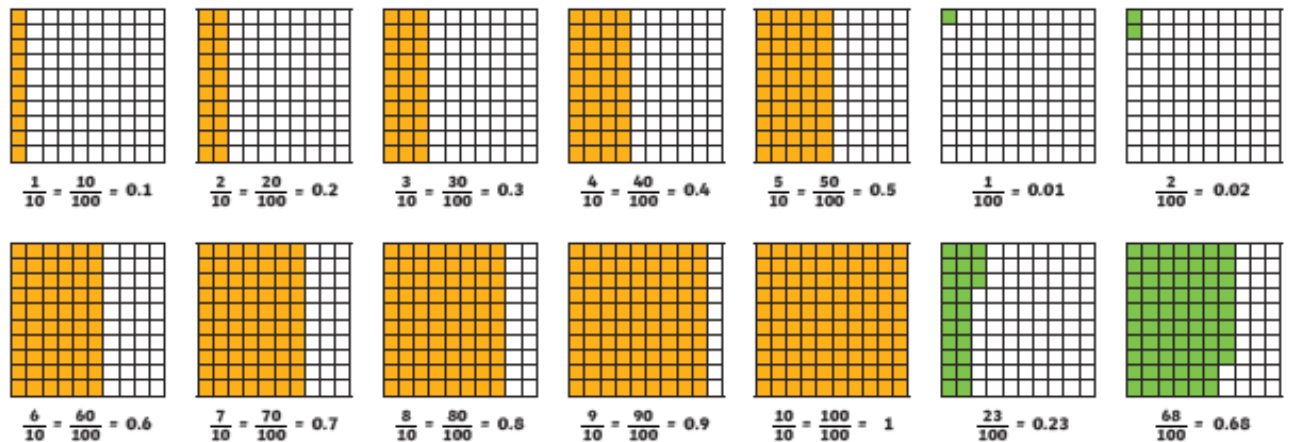
$= \frac{1}{2} = 0.5$

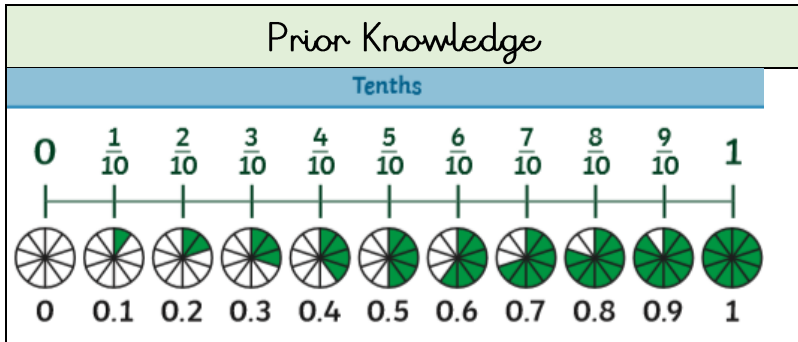
$= \frac{1}{4} = 0.25$

$= \frac{3}{4} = 0.75$

$= \frac{1}{10} = 0.1$

Tenth and Hundredth Decimal Equivalents

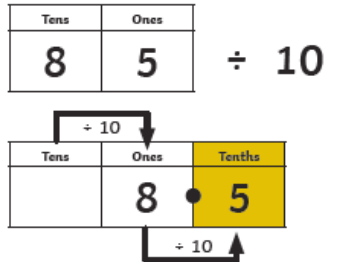




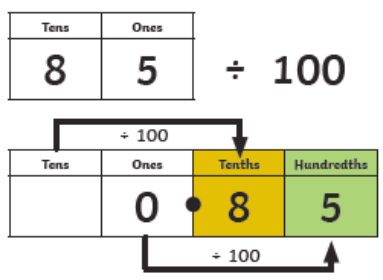
Zooming out...

- 'Decimal' means 'based on 10' and comes from Latin 'decima' ('a tenth part')
- Egyptian hieroglyphs show basic decimals were used (2900BC)
- 1400BC, decimals were developed by the Chinese. They spread to the Middle East, then to Europe.

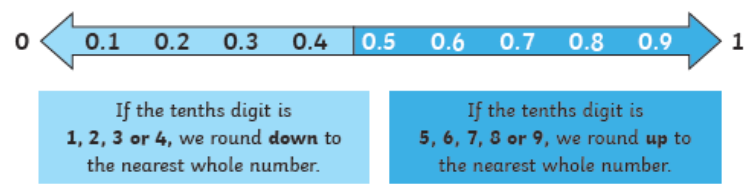
Dividing by 10



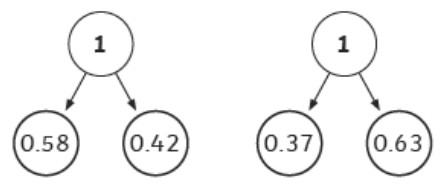
Dividing by 100



Rounding Decimals



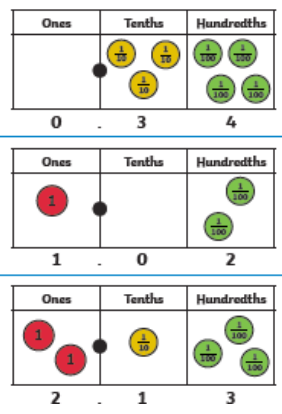
Make a Whole



Partitioning Tenths and Hundredths



Comparing Numbers with Two Decimal Places



Real Life

- **Money.** We use decimals every time we use money
- **Measurements.** Needing something which measures 1.25m or 3.5L
- **Buying petrol.** Filling up your car with 40.5L. Also paying for the petrol!
- **Measuring temperatures.** 'Normal' temperature for a child is around 36.4°C