

Year 4 – Maths – Decimals

Key vocabulary

tenths

hundredths

decimal tenths

decimal hundredths

decimal equivalents

part-whole model

rounding

decimal point

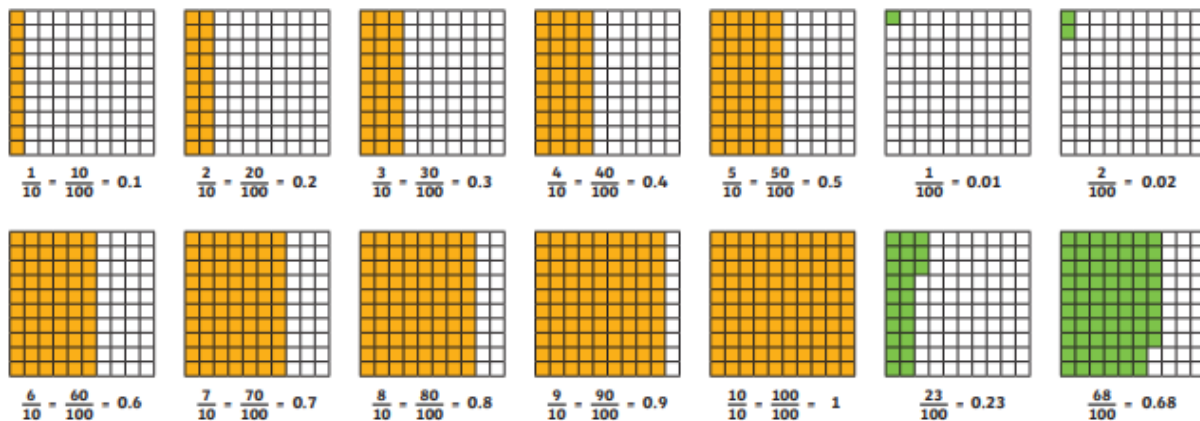
place value

Links to other learning

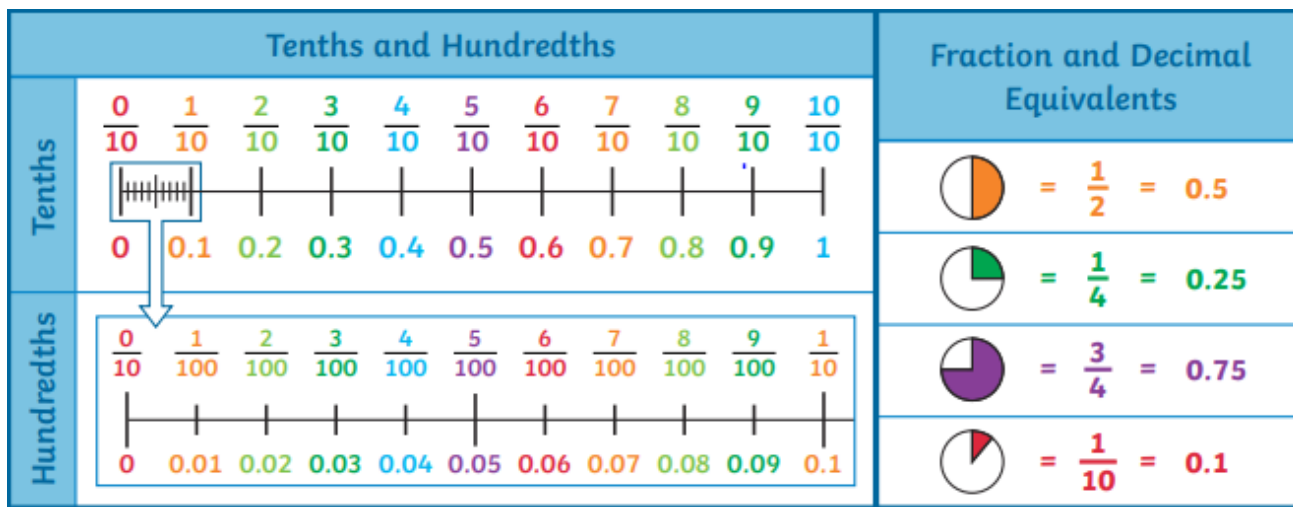
Year 5 – Read and write decimal numbers as fractions; Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents; Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place; Read, write, order and compare numbers with up to 3 decimal places; Solve problems involving number up to 3 decimal places; Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction.

Key questions

What is $\frac{4}{10}$ as a decimal?
Can you shade in 0.25 of a shape?
Can you solve 85 divided by 10? 100?



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Year 4 – Maths – Decimals

Dividing by 10

Tens	Ones
8	5

 $\div 10$

Tens	Ones	Tenths
	8	5

Diagram showing the division process: 85 ÷ 10 = 8.5. An arrow labeled '÷ 10' points from the 85 to the 8.5, and another arrow labeled '÷ 10' points from the 5 to the 0.5.

Dividing by 100

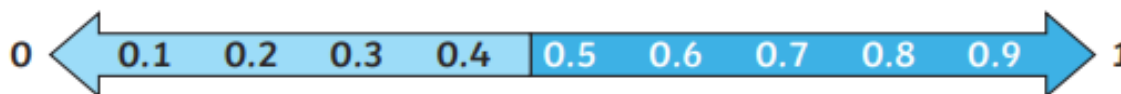
Tens	Ones
8	5

 $\div 100$

Tens	Ones	Tenths	Hundredths
	0	8	5

Diagram showing the division process: 85 ÷ 100 = 0.85. An arrow labeled '÷ 100' points from the 85 to the 0.85, and another arrow labeled '÷ 100' points from the 5 to the 0.05.

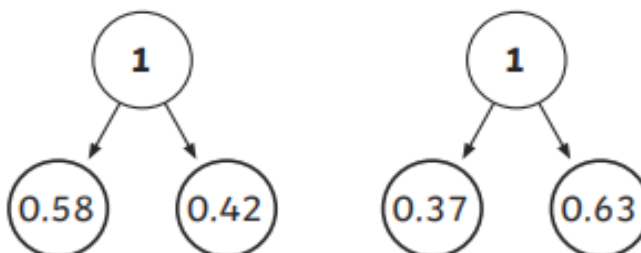
Rounding Decimals



If the tenths digit is **1, 2, 3 or 4**, we round **down** to the nearest whole number.

If the tenths digit is **5, 6, 7, 8 or 9**, we round **up** to the nearest whole number.

Make a Whole



Partitioning Tenths and Hundredths



Comparing Numbers with Two Decimal Places

Ones	Tenths	Hundredths
	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$
0	.	3 4

Ones	Tenths	Hundredths
1		$\frac{1}{100}$ $\frac{1}{100}$
1	.	0 2

Ones	Tenths	Hundredths
1 1	$\frac{1}{10}$	$\frac{1}{100}$ $\frac{1}{100}$
2	.	1 3