Decimals

Key vocabulary	
Decimal	A decimal number can be defined as a number whose whole number part and the fractional part is separated by a decimal point
Tenths	Children understand that a tenth is a part of a whole split into 10 equal parts. 0.1 as a decimal and 1/10 as a fraction.
Hundreths	Children understand that a hundredth is a part of a whole split into 100 equal parts. 0.01 as a decimal and 1/100 as a fraction.
Decimal point	A 'dot' that separates the whole number from the fractional part e.g 2.4. The digits following the decimal point show a value smaller than one.

Dividing by 10

To divide the number by 10, we move the counters one column to the right.

Tens	Ones		
8	5	÷ 10	

÷ 10

Tens	Ones	Tenths
	8 •	5

÷ 10

Dividing by 100

To divide the number by 100, we move the counters two columns to the right.

Tens	Ones		
8	5	÷ 100	

÷ 100

Tens	Ones	Tenths	Hundredths
	0 •	8	5

÷ 100

Decimals as tenths

Image	Words	Fraction	Decimal
	Six tenths	6/10	0.6
	Two tenths	2/10	0.2

Decimals as hundredths

Image	Words	Fraction	Decimal
	Seven hundredths	7/100	0.07
	Seventy hundredths	70/100 or 7/10	0.7

Fraction to Decimal Equivalences

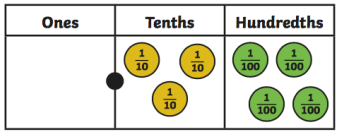
= $\frac{1}{2}$ = 0.5

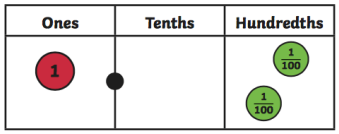
= $\frac{1}{4}$ = 0.25

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

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

Comparing Decimals





Partitioning

Making a whole