

Decimals

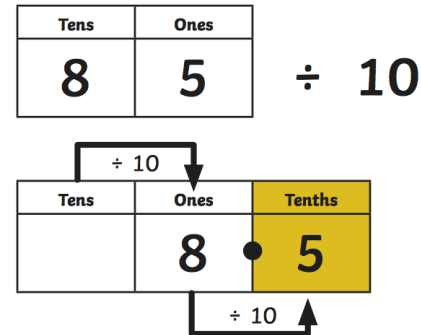
Key vocabulary

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.
Hundredths	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.

Decimals as tenths

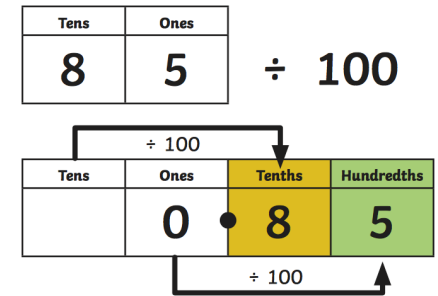
Dividing by 10

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



Dividing by 100

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



Image

Words

Fraction

Decimal



Six tenths

$\frac{6}{10}$

0.6



Two tenths

$\frac{2}{10}$

0.2

Decimals as hundredths

Fraction to Decimal Equivalences

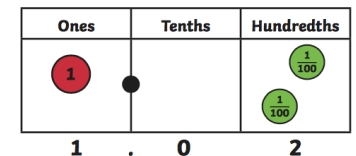
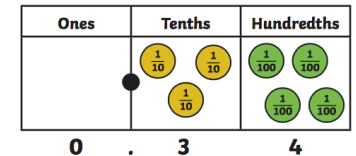
$$\frac{1}{2} = \frac{1}{2} = 0.5$$

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

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

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

Comparing Decimals

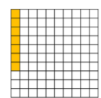


Image

Words

Fraction

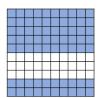
Decimal



Seven hundredths

$\frac{7}{100}$

0.07

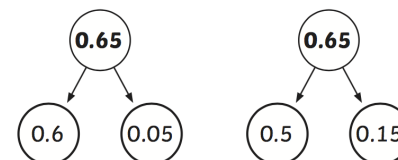


Seventy hundredths

$\frac{70}{100}$ or $\frac{7}{10}$

0.7

Partitioning



Making a whole

