

Y7 Fraction, Decimal, and Percentage equivalence



What do I need to be able to do?

By the end of this unit you should be able to:

 Convert fluently between fractions, decimals & percentages

Keywords

Fraction: how many parts of a whole we have

Decimal: a number with a decimal point used to separate ones, tenths, hundreaths etc.

Percentage: a proportion of a whole represented as a number between 0 and 100

Place value: the numerical value that a digit has decided by its position in the number

Placeholder: a number that occupies a position to give value

11 Interval: a range between two numbers

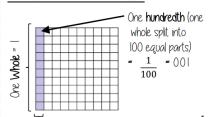
11 Tenth: one whole split into 10 equal parts

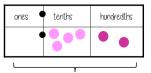
Hundredth: one whole split into 100 equal parts

I Sector a part of a circle between two radius (often referred to as looking like a piece of pie)

Recurring: a decimal that repeats in a given pattern

Tenths and hundredths

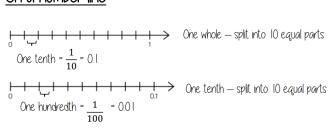


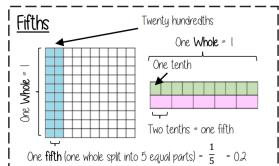


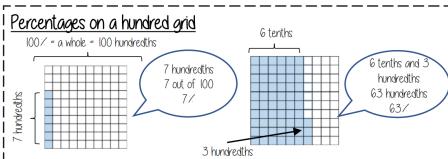
0 ones, 5 tenth and 2 hundredths 0 + 0.1 + 0.1 + 0.1 + 0.1 + 0.01 + 0.01 | = 0 + 0.5 + 0.02 = 0.52

One **tenth** (one whole split into 10 equal parts) = $\frac{1}{10}$ = 0.1

On a number line

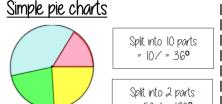






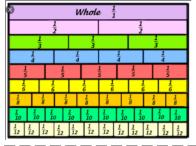
Quarters One quarter (one whole split into 4 equal parts) = $\frac{1}{4}$ = 0.25 Twenty five hundredths One whole $\frac{1}{4}$ = 0.5

One quarter = 0.25



0 pie chart has 360° so all FDP calculations are out of 360°

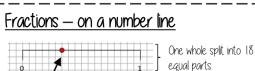
Equivalent fractions Represent equivalence with fraction walls Whole 1



The dot above the 3

<u>Fractions — on a diagram</u>







Convert FDP 70 out of 100 This also 70 hundredths = 70% 100 70 "hundredths" 70 - 100= 7 "tenths" Using a 0.7 calculator Be careful of recurring decimals = 0.3333333 Convert to a decimal = 0.3 This will give you the answer × 100 converts to a

percentage

in the simplest form