

# YEAR 7 — PLACE VALUE AND PROPORTION... FDP equivalence

@whisto\_maths

## What do I need to be able to do?

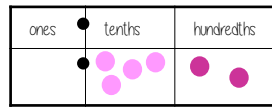
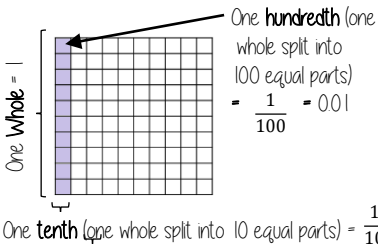
By the end of this unit you should be able to:

- Convert fluently between fractions, decimals & percentages

## Keywords

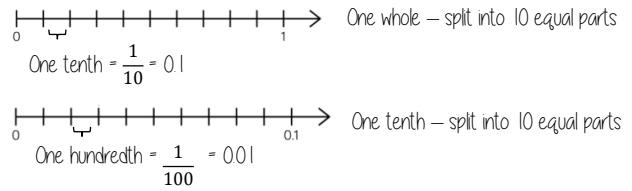
- Fraction:** how many parts of a whole we have
- Decimal:** a number with a decimal point used to separate ones, tenths, hundredths etc.
- Percentage:** a proportion of a whole represented as a number between 0 and 100
- Place value:** the numerical value that a digit has decided by its position in the number
- Placeholder:** a number that occupies a position to give value
- Interval:** a range between two numbers
- Tenth:** one whole split into 10 equal parts
- Hundredth:** one whole split into 100 equal parts
- 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

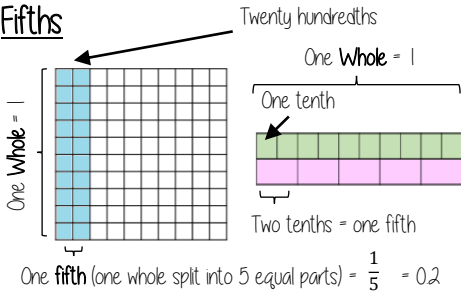


0 ones, 5 tenths and 2 hundredths  
 $0 + 0.1 + 0.1 + 0.1 + 0.1 + 0.1 + 0.01 + 0.01$   
 $= 0 + 0.5 + 0.02$   
 $= 0.52$

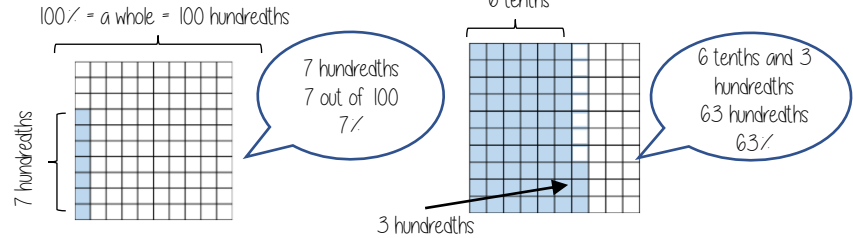
## On a number line



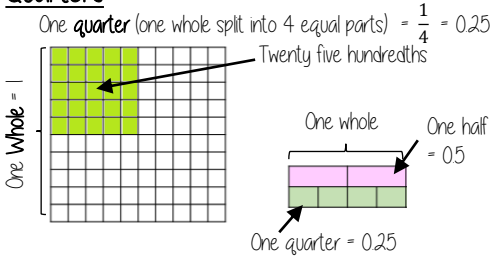
## Fifths



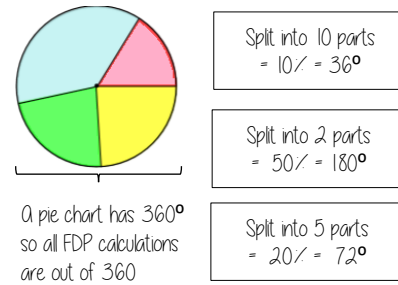
## Percentages on a hundred grid



## Quarters

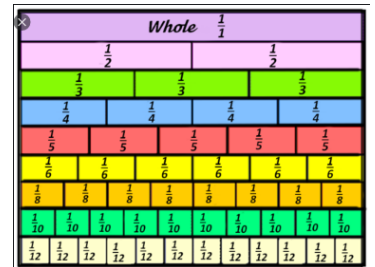


## Simple pie charts

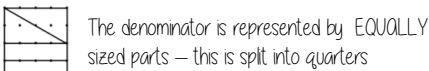


## Equivalent fractions

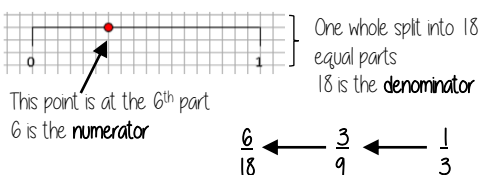
Represent equivalence with fraction walls



## Fractions — on a diagram



## Fractions — on a number line



## Convert FDP

