## year 10 - PROPORTION...

## @whisto_maths

What do I need to be able to do?
|
| By the end of this unit you should be able to:
1- Odd, Subtract and multiply fractions
1- Find probabilities using likely autcomes
1- Use probability that sums to I

- Estimate probabilities

1. Use Venn diagrams and frequency trees

- Use sample space diagrams
- Calculate probability for independent events
- Use tree diagrams


## Keywords

Event: one or more outcomes from an experiment
I Outcome: the result of an experiment
I Intersection: elements (parts) that are common to both sets
I Union: the combination of elements in two sets.
Expected Vave: the vave/ outcome that a prediction would suggest you will get
Universal Set: the set that has all the elements
Systematic: ordering values or outcomes with a strategy and sequence
Product: the answer when two or more values are multiplied together.

## add, Subtract and mutiply fractions

Iadtion and Subtraction
$\frac{4}{5}-\frac{2}{3}$
$\frac{12}{15}-\frac{10}{15}=\frac{2}{15}$
Use equivalent fractions to
find a common multipl for
both denominators

Multiplication

Likeliness of a probability


The more likely an event the further up the probability it will be in comparison to another event (It will have a probability closer to I)


Experimental data


Tables, Venn diagrams, Frequency trees


## YEAR 10 －PROPORTION

＠whisto＿maths
Percentages and interest
What do I need to be able to do？
By the end of this unit you should be able to：
1．Convert and compare FDP
1．Work out percentages of amounts
｜．Exprease／decrease by a given percentage number as a percentage
｜．Calculate simple and compound interest
－Calculate repeated percentage change
－Find the original value
－Solve problems with growth and decay
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## Keywords

Exponent：how many times we use a number in multipication It is written as a power
Compound interest：calculating interest on both the amount plus previous interest
｜Depreciation：a decrease in the value of something over time．
I Growth：where a value increases in proportion to its current value such as doubling
I Decay：the process of reducing an amount by a consistent percentage rate over time
Mutipier：the number yov are mutipling by
Equivalent：of equal value．


Percentage increase／decrease $R$


Simple and compound interest

| Simple interest |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| James invests |



