

Y11F Percentages and Interest



What do I need to be able to do?

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

- Convert and compare FDP
- Work out percentages of amounts
- Increase/ decrease by a given percentage
- Express one number as a percentage
- Calculate simple and compound interest
- Calculate repeated percentage change
- Find the original value
- Solve problems with growth and decay

Keywords

Exponent: how many times we use a number in multiplication. It is written as a power Compound interest: calculating interest on both the amount plus previous interest

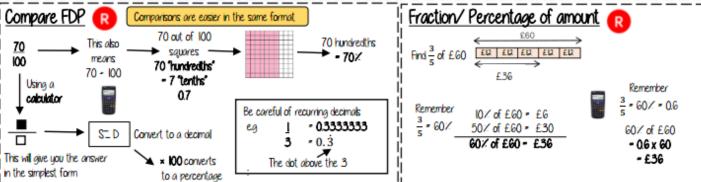
Depreciation: a decrease in the value of something over time.

Growth: where a value increases in proportion to its current value such as doubling.

Decay the process of reducing an amount by a consistent percentage rate over time.

Multiplier: the number you are multiplying by

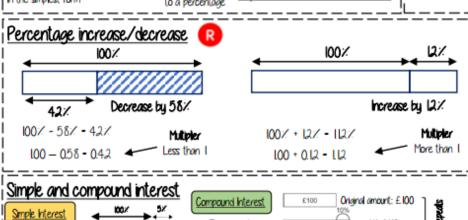
Equivalent: of equal value.



YE £110

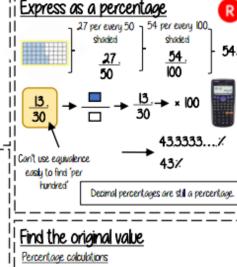
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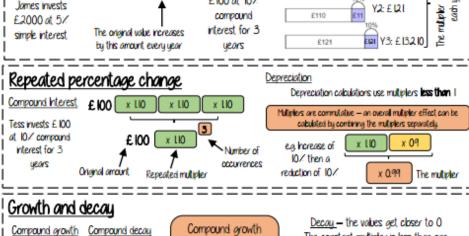
£100



Tess invests

£100 at 10%

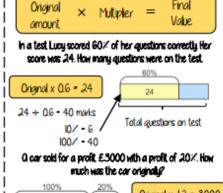


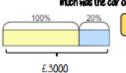


and compound

decay are

exponential araphs





Original x L2 = 3000 120% - £3000 10% - £250

100% - £2500

Final

James invests

The constant multiplier is less than one

Growth — the values increase exponentially

The constant multiplier is more than one