Crucial Knowledge

## Foundation

## Higher

## Foundation



Chapter 5

Chapter 9

Chapter 13


Chapter 3

Chapter 7

Chapter 11

Chapter 15

Chapter 4

Chapter 8

Chapter 12

Chapter 16

## Home

## Higher

## Chapter 1

Chapter 2
Chapter 3
Chapter 4
Chapter 5

## Chapter 6

Chapter 10

Chapter 14

Chapter 18

Chapter 8

Chapter 12

Chapter 16

Chapter 20
Chapter 21

Home

## Chapter 1 - Number

## Chapter 2 - Measures, Perimeter, Area

## Chapter 3 - Expressions

## Chapter 4 - Fractions, Decimals, Percentages

## Fractions

Bottom term is the denominator Top term is the numerator

## Fractions of a quantity

Divide by the denominator
Multiply by the numerator

## Fraction Arithmetic

Multiplying - Multiply top by top and bottom by bottom.
Dividing - 'Keep Change Flip'.
Addition or Subtraction - You need same bottom number (denominator). Add or subtract the numerator, keep the denominator the same.

## Percentages

An amount out of 100

## With a calculator:

What is $40 \%$ of $£ 50$
Percentage $\div 100 \times$ amount Changing to a percentage:
Amount $\div$ total x 100

Without a calculator:
1\% = divide by 100
$10 \%$ = divide by 10
$25 \%$ = divide by 4
50\% = divide by 2



## Chapter 5 - Angles and 2D Shapes

## Chapter 6 - Graphs

Home

## Chapter 7 - Calculations

Home

## Chapter 8 - Statistics

## Chapter 9 - Transformations

Home

## Chapter 10 - Equations

Home

## Chapter 11 - Powers and Roots

Home

## Chapter 12 - Constructions and Triangles

Home

## Chapter 13 -Sequences

Home

## Chapter 14 - 3D Shapes and Trigonometry

## Chapter 15 - Ratio and Proportion

Home

## Chapter 16 - Probability

Home

## Chapter 17 - Circles

Home

## Chapter 18-Quadratics

Home

## Chapter 19 - Vectors

Home

## Chapter 20 - Bearings and Scale

Home

## Chapter 21 - Further Trigonometry

Home

## Chapter 1 - Number

Home

## Chapter 2 - Measures, Perimeter, Area

Home

## Chapter 3 - Expressions

> Home

## Chapter 4 - Fractions, Decimals, <br> Percentages



## Recurring Decimals

A decimal with repeating values
We indicate the repeating numbers with a dot above

$$
\begin{aligned}
0 . \dot{6} & =0.666666 \ldots \\
0 . \dot{6} 5 \dot{6} & =0.656656656 \ldots \\
0.71 \dot{6} & =0.7161616 \ldots
\end{aligned}
$$

## Home

Must be able to convert recurring decimals to fractions

## Chapter 5 - Angles \& 2D shapes

Home

## Chapter 6 - Graphs

 Home
## 

## Chapter 7 - Calculations

Home

## Chapter 8 - Statistics

 Home
## Chapter 9 - Transformations

Home

## Chapter 10 - Equations

Home

## Chapter 11 - Powers and Roots

Home

## Chapter 12 - Constructions and Triangles

Home

## Chapter 13 -Sequences

Home

## Chapter 14 - 3D Shapes and Trigonometry

## Chapter 15 - Ratio and Proportion

Home

## Chapter 16 - Probability

Home

## Chapter 17 - Circles

Home

## Chapter 18 - Quadratics

Home

## Chapter 19 - Vectors

Home

## Chapter 20 - Bearings and Scales

Home

## Chapter 21 - Further Trigonometry

Home

