



Click here for the 'need to know' formulae flashcards.

Click here for the topic video links.

T	O	P	I	C	S	I
TYPES OF NUMBER	FACTORS, MULTIPLES & PRIMES	MONEY & BIDMAS	NEGATIVE NUMBERS	ALGEBRA	ANGLES	AREA & PERIMETER
REFLECTIONS, TRANSLATIONS & ROTATIONS	CIRCLES	DECIMALS	FRACTIONS	MORE FRACTIONS & LAWS OF INDICES	PERCENTAGES	PERCENTAGES & COMPOUND INTEREST
RATIO & PROPORTION	ENLARGEMENT	SIMULTANEOUS EQUATIONS	AVERAGES	FRACTIONS, DECIMALS & PERCENTAGES	AVERAGES FROM A TABLE	SOLVING EQUATIONS
DRAWING & INTERPRETING GRAPHS	SEQUENCES	STANDARD FORM / SPEED, DISTANCE, TIME / COMPOUND MEASURES	FRACTIONS, DECIMALS & PERCENTAGES	LINEAR GRAPHS	LINEAR GRAPHS, MULTIPLICATION & DIVISION	CONSTRUCTIONS & LOC1
PROBABILITY	VOLUME	INEQUALITIES	SURFACE AREA	PYTHAGORAS & TRIGONOMETRY	SPHERES	QUADRATICS
ROUNDING & ESTIMATION	SIMILAR SHAPES			CORBETTMATHS 5-A-DAY REVISION SHEETS	AQA PAST EXAM PAPERS	

Mortimer GCSE MATHS FOUNDATION TOPICS
Remember this covers the majority of topics you need to know.



WELCOME TO MRS THORNTON'S GCSE FOUNDATION MATHS SUPPORT PACK.



Remember this covers the majority of topics you need to know.

T	O	P	I	C	S	!
<u>TYPES OF NUMBER</u>	<u>FACTORS, MULTIPLES & PRIMES</u>	<u>MONEY & BIDMAS</u>	<u>NEGATIVE NUMBERS</u>	<u>ALGEBRA</u>	<u>ANGLES</u>	<u>AREA & PERIMETER</u>
<u>REFLECTIONS, TRANSLATIONS & ROTATIONS</u>	<u>CIRCLES</u>	<u>DECIMALS</u>	<u>FRACTIONS</u>	<u>MORE FRACTIONS & LAWS OF INDICES</u>	<u>PERCENTAGES</u>	<u>PERCENTAGES & COMPOUND INTEREST</u>
<u>RATIO & PROPORTION</u>	<u>ENLARGEMENT</u>	<u>SIMULTANEOUS EQUATIONS</u>	<u>AVERAGES</u>	<u>FRACTIONS, DECIMALS & PERCENTAGES</u>	<u>AVERAGES FROM A TABLE</u>	<u>SOLVING EQUATIONS</u>
<u>DRAWING & INTERPRETING GRAPHS</u>	<u>SEQUENCES</u>	<u>STANDARD FORM / SPEED, DISTANCE, TIME / COMPOUND MEASURES</u>	<u>FRACTIONS, DECIMALS & PERCENTAGES</u>	<u>LINEAR GRAPHS</u>	<u>LINEAR GRAPHS, MULTIPLICATION & DIVISION</u>	<u>CONSTRUCTIONS & LOGI</u>
<u>PROBABILITY</u>	<u>VOLUME</u>	<u>INEQUALITIES</u>	<u>SURFACE AREA</u>	<u>PYTHAGORAS & TRIGONOMETRY</u>	<u>SPHERES</u>	<u>QUADRATICS</u>
<u>ROUNDING & ESTIMATION</u>	<u>SIMILAR SHAPES</u>			<u>CORBETTMATHS 5-A-DAY REVISION SHEETS</u>	<u>AQA PAST EXAM PAPERS</u>	



VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



SQUARE NUMBERS

CUBE NUMBERS

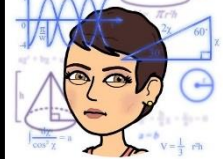
PRIME NUMBERS

SQUARE ROOTS

CUBE ROOTS

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

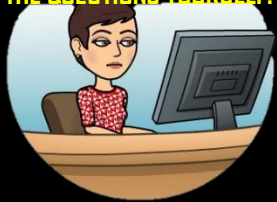
TYPES OF NUMBER

VIDEO LINKS

GCSE Foundation Maths REVISION

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



FACTORS

MULTIPLES

HCF

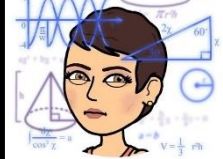
LCM

PRODUCT OF PRIME
FACTORS

PRODUCT OF PRIME
FACTORS (LCM/HCF)

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

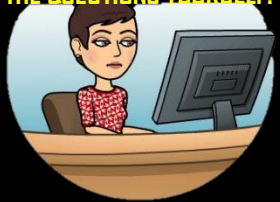
FACTORS, MULTIPLES & PRIMES

VIDEO LINKS

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REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



EXCHANGE RATES

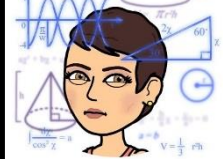
BEST BUYS

BIDMAS/BODMAS

COMPOUND INTEREST

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

MONEY & BIDMAS

VIDEO LINKS

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THE QUESTIONS YOURSELF!



NEGATIVES: +/-

NEGATIVES: \times

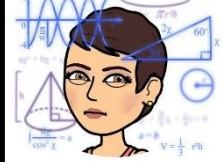
NEGATIVES: \div

NEGATIVES: ORDERING

NEGATIVES: REAL LIFE

Mortimer

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BACK TO THE MENU!

NEGATIVE NUMBERS

VIDEO LINKS

GCSE Foundation Maths REVISION

Mortimer

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



COLLECTING LIKE TERMS

EXPANDING BRACKETS

EXPANDING DOUBLE
BRACKETS

SUBSTITUTION

FORMING EXPRESSIONS

CHANGING THE SUBJECT

REVISE using the
Corbettmaths
Videos

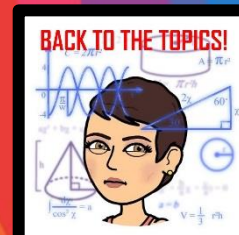
REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



FACTORISING

FACTORISING
QUADRATICS

DIFFERENCE OF TWO
SQUARES



ALGEBRA

VIDEO LINKS

GCSE Foundation Maths REVISION

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



ANGLES: TRIANGLES

ANGLES:
QUADRILATERALS

ANGLES: POLYGONS

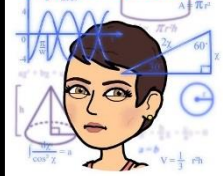
ANGLES: BEARINGS

ANGLES: PARALLEL LINES

ANGLES: VERTICALLY
OPPOSITE

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

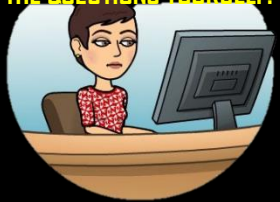
ANGLES

VIDEO LINKS

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



AREA: TRIANGLE

AREA: PARALLELOGRAM

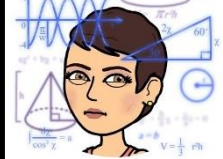
AREA: TRAPEZIUM

AREA: L-SHAPE

AREA: COMPOUND
SHAPES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

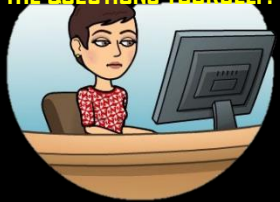
AREA & PERIMETER

VIDEO LINKS

GCSE Foundation Maths REVISION

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



REFLECTIONS

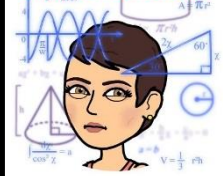
DESCRIBING
REFLECTIONS

TRANSLATIONS

ROTATIONS

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

REFLECTIONS, TRANSLATIONS & ROTATIONS

VIDEO LINKS

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Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



AREA: CIRCLES

CIRCUMFERENCE

PERIMETER OF SEMI-
CIRCLES

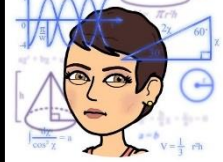
ARC LENGTH

AREA OF SEGMENT

VOLUME OF A CYLINDER

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

CIRCLES

VIDEO LINKS

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Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



DECIMALS: +

DECIMALS: -

DECIMALS: \times

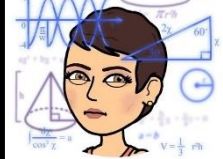
DECIMALS: \div BY
DECIMALS

DECIMALS: \div DECIMALS
BY INTEGERS

DECIMALS: ORDERING

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

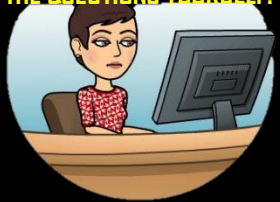
DECIMALS

VIDEO LINKS

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



FRACTIONS: +/-

SIMPLIFYING FRACTIONS

FRACTIONS: \times

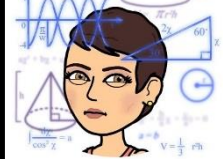
FRACTIONS: \div

FRACTIONS OF AN
AMOUNT

ORDERING FRACTIONS

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

FRACTIONS

VIDEO LINKS

GCSE Foundation Maths REVISION

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Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



MIXED NUMBER TO
IMPROPER FRACTION

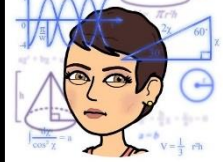
IMPROPER FRACTION TO
MIXED NUMBER

EXPRESS AS A FRACTION

LAWS OF INDICES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

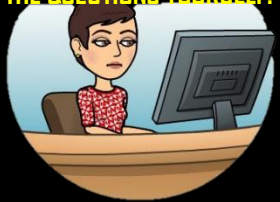
MORE FRACTIONS & LAWS OF INDICES

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



PERCENTAGES OF AN
AMOUNT (NON-CALC)

PERCENTAGES OF AN
AMOUNT (CALC)

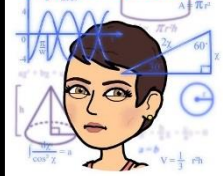
INCREASE/DECREASE BY
PERCENTAGE

EXPRESSING AS A
PERCENTAGE

PERCENTAGE
CHANGE

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

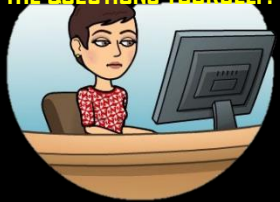
PERCENTAGES

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



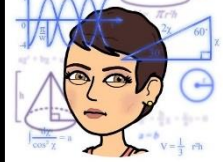
REVERSE PERCENTAGES

COMPOUND INTEREST

REVERSE PERCENTAGES & COMPOUND INTEREST

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



PROPORTION: RECIPES

SIMPLIFYING RATIOS

EXPRESS RATIO AS
FRACTION OR %AGE

SHARING INTO A GIVEN
RATIO

RATIO: GIVEN ONE
PART

SCALES & MAPS

DIRECT PROPORTION

INVERSE
PROPORTION

UNITARY METHOD

PROPORTION GRAPHS

RATIO: GIVEN TWO
PARTS

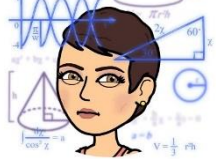
RATIO: DIFFERENCE
BETWEEN

RATIO 1:n

RATIO:
EQUATIONS/RATIO

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

RATIO & PROPORTION

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



ENLARGEMENT

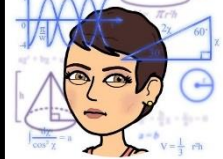
CENTRE OF
ENLARGEMENT

DESCRIBING
ENLARGEMENT

FINDING THE CENTRE OF
ENLARGEMENT

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

ENLARGEMENT

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



MEAN

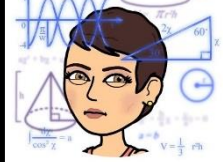
MODE

MEDIAN

RANGE

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

AVERAGES

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



PERCENTAGE TO
DECIMAL

PERCENTAGE TO
FRACTION

DECIMAL TO FRACTION
(NON-CALC)

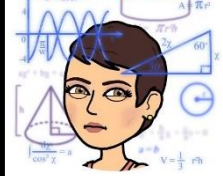
DECIMAL TO FRACTION
(CALC)

DECIMALS TO
PERCENTAGES

FRACTIONS TO
PERCENTAGES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

FRACTIONS, DECIMALS & PERCENTAGES

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



MEAN FROM FREQUENCY
TABLE

ESTIMATED MEAN
(GROUPED DATA)

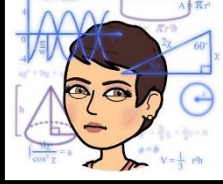
MEDIAN FROM
FREQUENCY TABLE

MEDIAN: GROUPED DATA
(ignore histograms)



Mortimer

BACK TO THE TOPICS!



AVERAGES FROM A TABLE

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



SOLVING EQUATIONS

SOLVING EQUATIONS
INCLUDING FRACTIONS

SOLVING EQUATIONS WITH
UNKNOWN ON BOTH SIDES

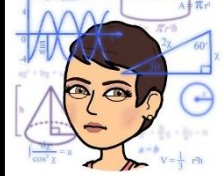
FORMING & SOLVING EQUATIONS
INVOLVING SHAPES

FORMING & SOLVING
EQUATIONS



Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

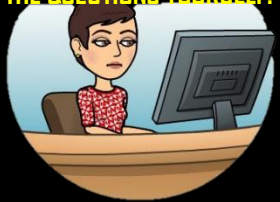
SOLVING EQUATIONS

VIDEO LINKS

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Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



CONVERSION GRAPH:
DRAW

CONVERSION GRAPH:
INTERPRET

PIE CHARTS: DRAW

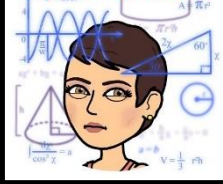
PIE CHARTS: INTERPRET

STEM & LEAF: DRAW

STEM & LEAF: INTERPRET

Mortimer

BACK TO THE TOPICS!



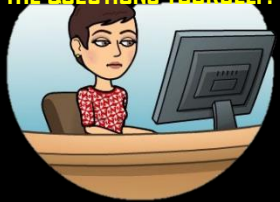
DRAWING & INTERPRETING GRAPHS

VIDEO LINKS

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Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



SEQUENCES:
DESCRIBING RULES

SEQUENCES: MISSING
TERMS

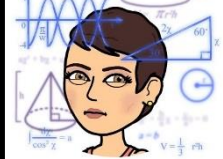
SEQUENCES: NTH TERM

SEQUENCES: PATTERNS



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BACK TO THE TOPICS!



BACK TO THE MENU!

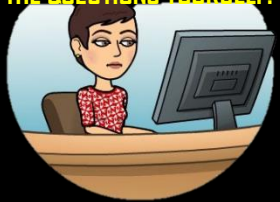
SEQUENCES

VIDEO LINKS

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Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



STANDARD FORM

STANDARD FORM: +

STANDARD FORM: \times

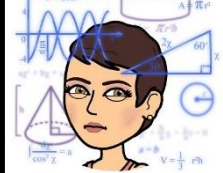
STANDARD FORM: \div

SPEED, DISTANCE, TIME

COMPOUND MEASURES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

STANDARD FORM / S,D,T / COMPOUND MEASURES

VIDEO LINKS

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REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



FRACTIONS TO DECIMALS
(NON-CALC)

FRACTIONS TO DECIMALS
(CALC)

FRACTIONS, DECIMALS,
%AGES: EQUIVALENCE

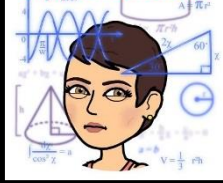
FRACTIONS, DECIMALS,
%AGES: MIXTURE

FRACTIONS, DECIMALS,
%AGES: ORDERING



Mortimer

BACK TO THE TOPICS!



FRACTIONS, DECIMALS & %AGES

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



DRAWING A LINEAR
GRAPH

GRADIENT OF A LINE

GRADIENT BETWEEN TWO
POINTS

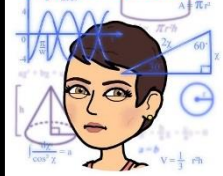
$$y=mx+c$$

PARALLEL LINES

PERPENDICULAR LINES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

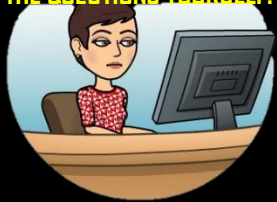
LINEAR GRAPHS

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



LINEAR GRAPHS: $y=$

LINEAR GRAPHS: $x=$

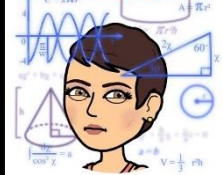
MIDPOINT OF A LINE

LONG MULTIPLICATION

SHORT DIVISION

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

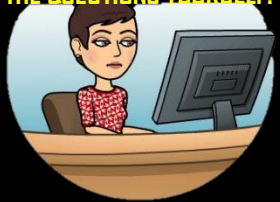
LINEAR GRAPHS / \times AND \div

VIDEO LINKS

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REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



PROBABILITY

SAMPLE SPACE
DIAGRAMS

INDEPENDENT EVENTS

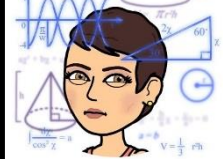
RELATIVE FREQUENCY

NOT HAPPENING

PROBABILITY TREE
DIAGRAMS

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

PROBABILITY

VIDEO LINKS

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



VOLUME OF CUBOID

VOLUME OF PRISM

VOLUME OF L-SHAPED
PRISM

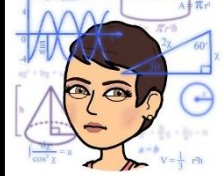
VOLUME OF CONE

VOLUME OF PYRAMID

VOLUME OF SPHERE

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

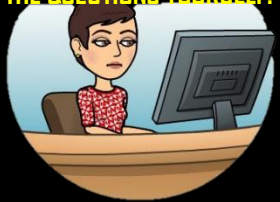
VOLUME

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



INEQUALITIES

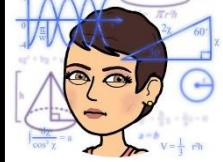
INEQUALITIES ON A
NUMBER LINE

SOLVING INEQUALITIES

UPPER & LOWER
BOUNDS

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

INEQUALITIES / UPPER & LOWER BOUNDS

VIDEO LINKS

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REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



SURFACE AREA OF
CUBOID

SURFACE AREA OF A L-
SHAPED PRISM

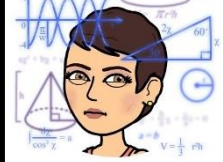
SURFACE AREA OF
PRISMS

SURFACE AREA OF
SPHERE

SURFACE AREA OF CONE

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

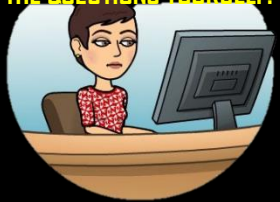
SURFACE AREA

VIDEO LINKS

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Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



PYTHAGORAS

PYTHAGORAS ON A
GRAPH

IS IT A RIGHT-ANGLED
TRIANGLE?

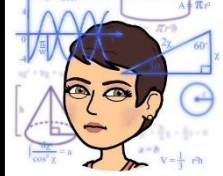
TRIGONOMETRY

TRIG: MISSING SIDES

TRIG: MISSING ANGLES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

PYTHAGORAS & TRIGONOMETRY

VIDEO LINKS

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Corbettmaths
Videos

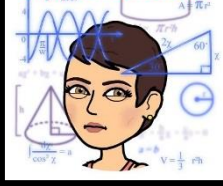
REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



VOLUME - SPHERE

SURFACE AREA -
SPHERE

BACK TO THE TOPICS!



BACK TO THE MENU!

Mortimer

SPHERES

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



EXPANDING DOUBLE
BRACKETS

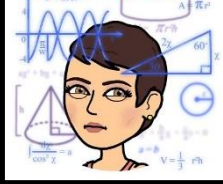
DRAWING QUADRATIC
GRAPHS

FACTORISING
QUADRATICS



Mortimer

BACK TO THE TOPICS!

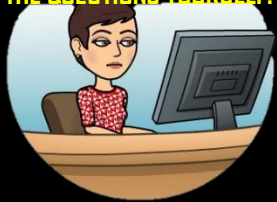


BACK TO THE MENU!

QUADRATICS

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



30° ANGLE

45° ANGLE

60° ANGLE

90° ANGLE

ANGLE BISECTOR

EQUILATERAL TRIANGLES

LOCI 1

LOCI 2

LOCI 3

PERPENDICULAR
BISECTOR

PERPENDICULAR TO
POINT

POINT ON LINE

ASA TRIANGLE

SAS TRIANGLE

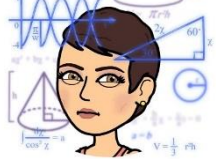
SSS TRIANGLE

HEXAGON

MIDPOINT BETWEEN TWO
LINES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

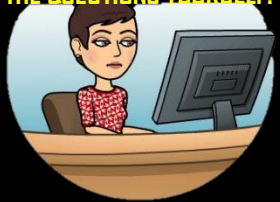
CONSTRUCTIONS & LOCI

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



ESTIMATION

ROUNDING TO
SIGNIFICANT FIGURES

ROUNDING TO WHOLE
NUMBERS

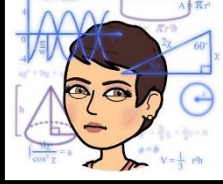
ROUNDING TO THE
NEAREST 10

ROUNDING TO THE
NEAREST 100

ROUNDING TO DECIMAL
PLACES

Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

ROUNDING & ESTIMATION

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!

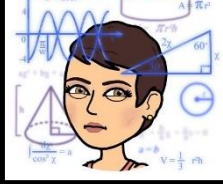


CONGRUENT AND
SIMILAR SHAPES

SIMILAR SHAPES: AREA

SIMILAR SHAPES:
VOLUME

BACK TO THE TOPICS!



BACK TO THE MENU!

Mortimer

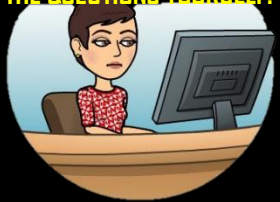
SIMILAR SHAPES

VIDEO LINKS

GCSE Foundation Maths REVISION

REVISE using the
Corbettmaths
Videos

REMEMBER TO PAUSE & TRY
THE QUESTIONS YOURSELF!



USING ELIMINATION

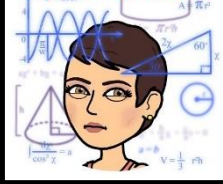
SUBSTITUTION

GRAPHICAL



Mortimer

BACK TO THE TOPICS!



BACK TO THE MENU!

SIMULTANEOUS EQUATIONS

Area of a circle



Circumference of a circle




Area of a rectangle



Area of a triangle



Area of a trapezium



Area of a parallelogram



HOW TO USE THESE CARDS
...by yourself!



HOW TO USE THESE CARDS
...with a friend/parent!



Volume of a cuboid



Volume of a prism



CLICK TO
REVEAL

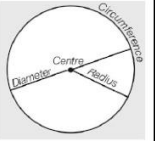
NEXT SET...

'Need to know' formulae flashcards



BACK TO THE MENU!

πr^2



#GOALS

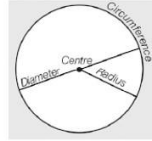
Area of a circle

FACTS

Circumference of a circle


FACTS

πd



#GOALS

length \times width



#GOALS


Area of a rectangle

FACTS

Area of a triangle

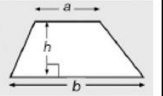
FACTS

$\frac{1}{2} \times \text{base} \times \text{height}$



#GOALS

$\frac{1}{2} \times (a+b) \times \text{height}$



#GOALS

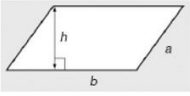
Area of a trapezium

FACTS

Area of a parallelogram

FACTS

base \times height



#GOALS

HOW TO USE THESE CARDS
...by yourself!




Use the Leitner system (watch the you tube video to find out how).

<https://www.youtube.com/watch?v=C20EvKtdJwQ>

#GOALS

HOW TO USE THESE CARDS
...by yourself!



HOW TO USE THESE CARDS
...with a friend/parent!



HOW TO USE THESE CARDS
...with a friend/parent!

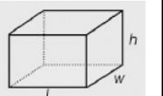
Use the 'Flashcard Game' structure to quiz your friends.



Flashcard Game

#GOALS

$l \times w \times h$



#GOALS

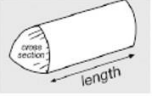
Volume of a cuboid

FACTS

Volume of a prism

FACTS

Area of cross section \times length



#GOALS


NEXT SET...

'Need to know' formulae flashcards




BACK TO THE MENU!


Volume of a cylinder



Volume of a pyramid




Distance =
(distance, speed, time)



Speed =
(distance, speed, time)




Time =
(distance, speed, time)




Mass =
(mass, density, volume)



Density =
(mass, density, volume)



Volume =
(mass, density, volume)



Force =
(force, pressure, area)



Pressure =
(force, pressure, area)




CLICK TO REVEAL


NEXT SET...

'Need to know' formulae flashcards




$\pi r^2 \times h$




#GOALS 


Volume of a cylinder


FACTS 

Volume of a pyramid


FACTS 


$\frac{1}{3} \times \text{area of base} \times h$




#GOALS 

$D = S \times T$



#GOALS 


Distance =
(distance, speed, time)


FACTS 

Speed =
(distance, speed, time)

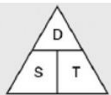
FACTS 


$S = D \div T$




#GOALS 

$T = D \div S$




#GOALS 


Time =
(distance, speed, time)


FACTS 

Mass =
(mass, density, volume)

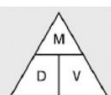
FACTS 


$M = D \times V$




#GOALS 

$D = M \div V$




#GOALS 


Density =
(mass, density, volume)


FACTS 

Volume =
(mass, density, volume)


FACTS 


$V = M \div D$



#GOALS 

$F = P \times A$



#GOALS 


Force =
(force, pressure, area)


FACTS 

Pressure =
(force, pressure, area)

FACTS 

$P = F \div A$



#GOALS 

NEXT SET...

'Need to know' formulae flashcards




Dividing fractions



Finding 5%



Adding
/subtracting
fractions




Multiplying
fractions



Trigonometry
 $\tan x^\circ =$




Finding 10%



Trigonometry
 $\sin x^\circ =$



Trigonometry
 $\cos x^\circ =$



Area =
(force, pressure, area)



Pythagoras



CLICK TO
REVEAL


NEXT SET...

'Need to know' formulae flashcards



$\frac{3}{5}$ ← numerator
 ← denominator

- Keep first fraction exactly as it is
- Flip second fraction
- Change sign from ÷ to ×
- Multiply the numerators
- Multiply the denominators
- Simplify the fraction



#GOALS

Dividing fractions



Finding 5%



- Find 10% by dividing the number by 10
- Half it


#GOALS

$\frac{3}{4} + \frac{1}{3} = \frac{9}{12} + \frac{4}{12} = \frac{13}{12}$
 $\frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12} = \frac{5}{12}$
 $\frac{3}{4} \times \frac{1}{3} = \frac{3 \times 1}{4 \times 3} = \frac{3}{12} = \frac{1}{4}$
 $\frac{3}{4} \div \frac{1}{3} = \frac{3}{4} \times \frac{3}{1} = \frac{9}{4}$

- Get the denominators the same
- Add/subtract the numerators
- Simplify the fraction

#GOALS

Adding /subtracting fractions



Multiplying fractions

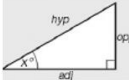


$\frac{3}{5}$ ← numerator
 ← denominator

- Multiply the numerators
- Multiply the denominators
- Simplify the fraction

#GOALS


$\tan x^\circ = \frac{\text{opp}}{\text{adj}}$




#GOALS

Trigonometry

$\tan x^\circ =$



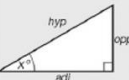
Finding 10%



Divide the number by 10

#GOALS


$\sin x^\circ = \frac{\text{opp}}{\text{hyp}}$



#GOALS


Trigonometry

$\sin x^\circ =$

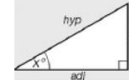


Trigonometry

$\cos x^\circ =$




$\cos x^\circ = \frac{\text{adj}}{\text{hyp}}$



#GOALS


$A = F \div P$



#GOALS

Area =

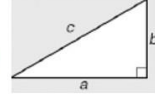
(force, pressure, area)



Pythagoras



$c^2 = a^2 + b^2$
 $a^2 = c^2 - b^2$
 $b^2 = c^2 - a^2$



#GOALS

NEXT SET...

'Need to know' formulae flashcards



BACK TO THE MENU!

Mean
(from a list of numbers)



Mode
(from a list of numbers)




Median
(from a list of numbers)




Range
(from a list of numbers)




Convert $\frac{1}{5}$ to a percentage and decimal




Convert 75% to a decimal and fraction




Convert 0.1 to a percentage and fraction



Convert $\frac{1}{3}$ to a decimal and percentage.



Convert 66.6% to a fraction and decimal.



Convert 0.25 to a percentage and fraction



[CLICK TO REVEAL](#)

[NEXT SET...](#)

'Need to know' formulae flashcards



- Add up the data
- Divide by how values there are



Mean
(from a list of numbers)



Mode
(from a list of numbers)



Most common



- Order the data
- Find the middle value



Median
(from a list of numbers)



Range
(from a list of numbers)



= biggest value - smallest value



20%

0.2



Convert 1/5 to a percentage and decimal



Convert 75% to a decimal and fraction



0.75

$\frac{3}{4}$



1/10

10%



Convert 0.1 to a percentage and fraction



Convert 1/3 to a decimal and percentage.



0.333

33.3%



0.666

2/3



Convert 66.6% to a fraction and decimal.



Convert 0.25 to a percentage and fraction



25%

$\frac{1}{4}$




NEXT SET...

'Need to know' formulae flashcards



BACK TO THE MENU!

Finding a fraction of an amount



Convert 0.7 to a percentage and fraction



Multiples




Factors



Prime Numbers



Angles on a straight line...




Angles in a triangle...



Corresponding angles...



Angles in a quadrilateral...



Angles around a point...



CLICK TO REVEAL

NEXT SET...

'Need to know' formulae flashcards



- Divide the number by the denominator
- Then multiply by the numerator



Finding a fraction of an amount



Convert 0.7 to a percentage and fraction



70%

7/10



Times tables.



Multiples



Factors



Numbers that go exactly into another number.



Have two factors, 1 and itself.

2, 3, 5, 7, 11, 13, ...



Prime Numbers



Angles on a straight line...



add up to 180° .



add up to 180° .



Angles in a triangle...



Corresponding angles...



are equal.

(F angles)



add up to 360° .



Angles in a quadrilateral...



Angles around a point...



add up to 360° .



NEXT SET...

'Need to know' formulae flashcards



BACK TO THE MENU!

Alternate angles...



Opposite angles...



Interior angles...



Acute angles...



Obtuse angles...



Reflex angles...



Perimeter...



Area...



___ mm = 1cm



___ cm = 1m



CLICK TO
REVEAL

NEXT SET...

'Need to know' formulae flashcards



are equal.

(Z angles)



Alternate angles...



Opposite angles...



are equal.

(X angles)



add up to 180° .

(C angles)



Interior angles...



Acute angles...



less than 90° .



Are more than 90° but less than 180° .



Obtuse angles...



Reflex angles...



more than 180° .



around the outline of the shape.



Perimeter...



Area...



The squares inside of a shape.



10mm



___ mm = 1cm



___ cm = 1m



100cm



NEXT SET...

'Need to know' formulae flashcards



BACK TO THE MENU!

Parallelogram



Trapezium



Rectangle



Rhombus



Exterior angles of a shape...



Square



___ ml = 1 litre



___ cl = 1 litre



___ m = 1km



___ g = 1kg



CLICK TO REVEAL
NEXT SET...

'Need to know' formulae flashcards



NEXT SET...



- Opposite sides are equal.
- Opposite angles are equal.
- Opposite sides are parallel
- Diagonals are not equal but bisect each other. #GOALS



- 4 sides
- 2 sides are parallel. #GOALS

- 4 equal sides.
- Opposite angles are equal.
- Opposite sides are parallel.
- Diagonals are not equal but bisect each other at 90° . #GOALS

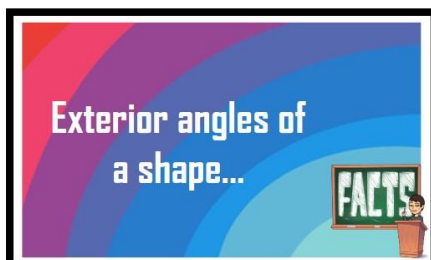
- Opposite sides are equal.
- 4 equal right angles.
- Opposite sides are parallel.
- Diagonals are equal and they bisect each other. #GOALS



- 4 equal sides.
- 4 equal right angles.
- Opposite sides are parallel.
- Diagonals are equal and bisect each other at 90° . #GOALS

- 4 equal sides.
- 4 equal right angles.
- Opposite sides are parallel.
- Diagonals are equal and bisect each other at 90° . #GOALS

add up to 360° . #GOALS



1000ml #GOALS

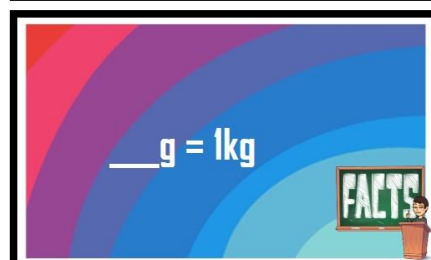
100cl #GOALS

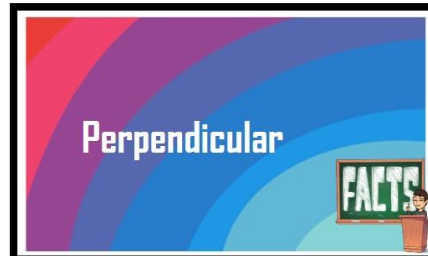
1000m #GOALS



1000g #GOALS

1000g #GOALS





CLICK TO REVEAL

'Need to know' formulae flashcards



- 2 pairs of adjacent sides are equal.
- 1 diagonal bisects the other at 90° .
- 1 pair of opposite angles is equal.



- Equal sides.
- Equal angles (60°).

- Two equal sides.
- Two equal angles (base angles).



- No equal sides.
- No equal angles.

1. Reflection
2. Translation
3. Rotation
4. Enlargement



$$1^2 = 1 \times 1 = 1$$

$$2^2 = 2 \times 2 = 4$$

$$3^2 = 3 \times 3 = 9$$

16, 25, 36, 49, 64, 81, 100, 121, 144...

$$1^3 = 1 \times 1 \times 1 = 1$$

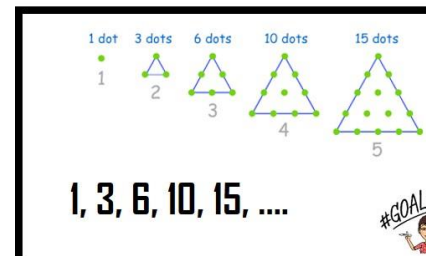
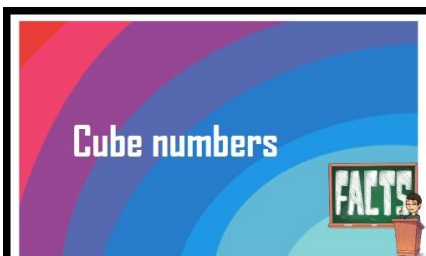
$$2^3 = 2 \times 2 \times 2 = 8$$

$$3^3 = 3 \times 3 \times 3 = 27$$

$$4^3 = 4 \times 4 \times 4 = 64$$

$$5^3 = 5 \times 5 \times 5 = 125$$

$$10^3 = 10 \times 10 \times 10 = 1000$$



- Equal distance apart
- Would never meet



At right angles to.

'Need to know' formulae flashcards

