

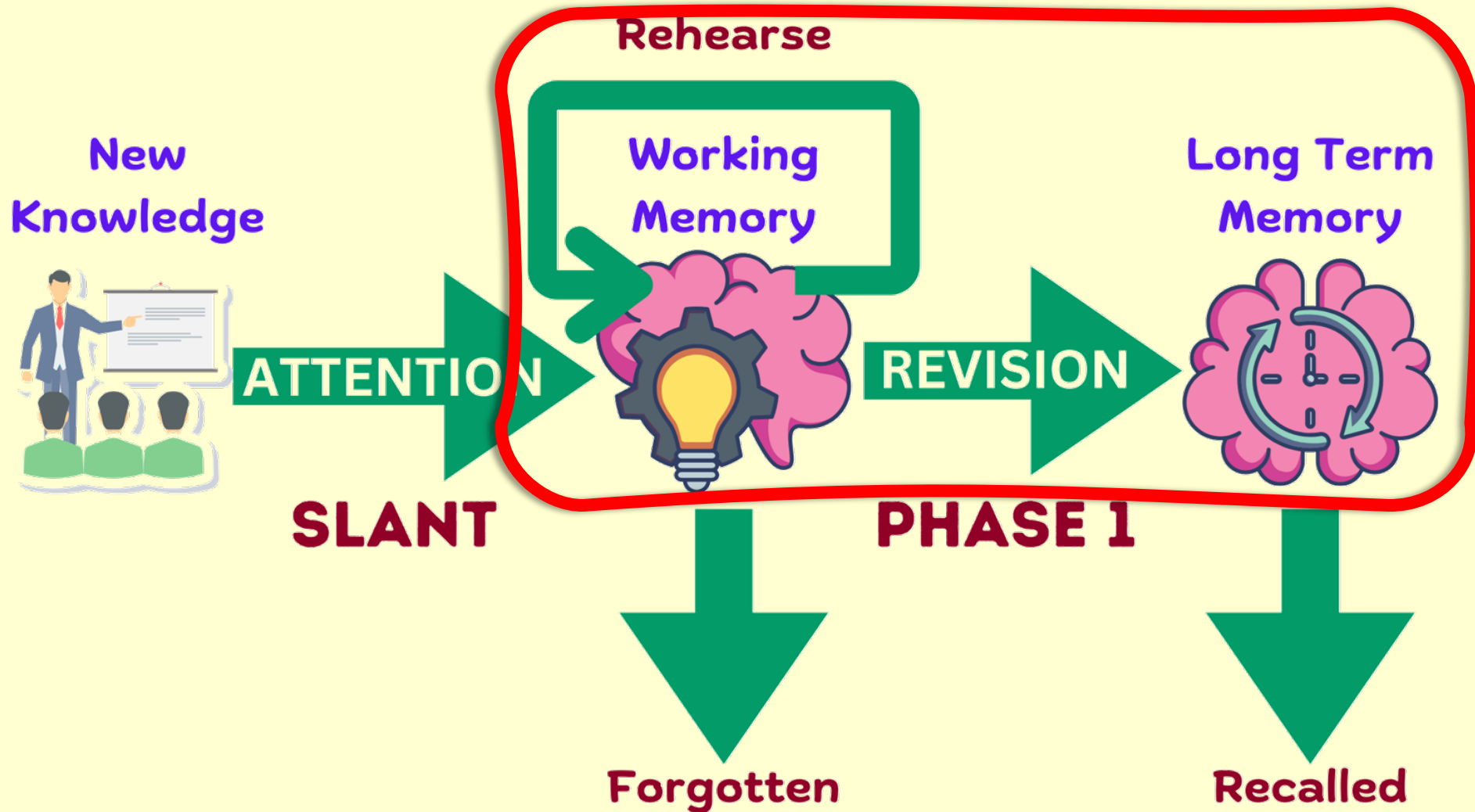
Revision in Maths

<p>Calculate the value of each letter</p>	<p>Find the area of the triangle</p>	<p>Find the volume of the prism</p>	<p>Find the missing length, x</p>
<p>Find the volume of the prism</p>	<p>Find the angles a and b</p>	<p>Find the lengths m and n</p>	<p>Explain how you can work out the interior angle of an n-sided regular polygon.</p> <p>Can you come up with a formula?</p>
<p>Calculate the bearing of the harbour from the lighthouse to the nearest degree.</p>	<p>Find the area of Pacman</p>	<p>Work out the surface area of the cylinder</p>	<p>Describe fully the single transformation which maps A to B</p>

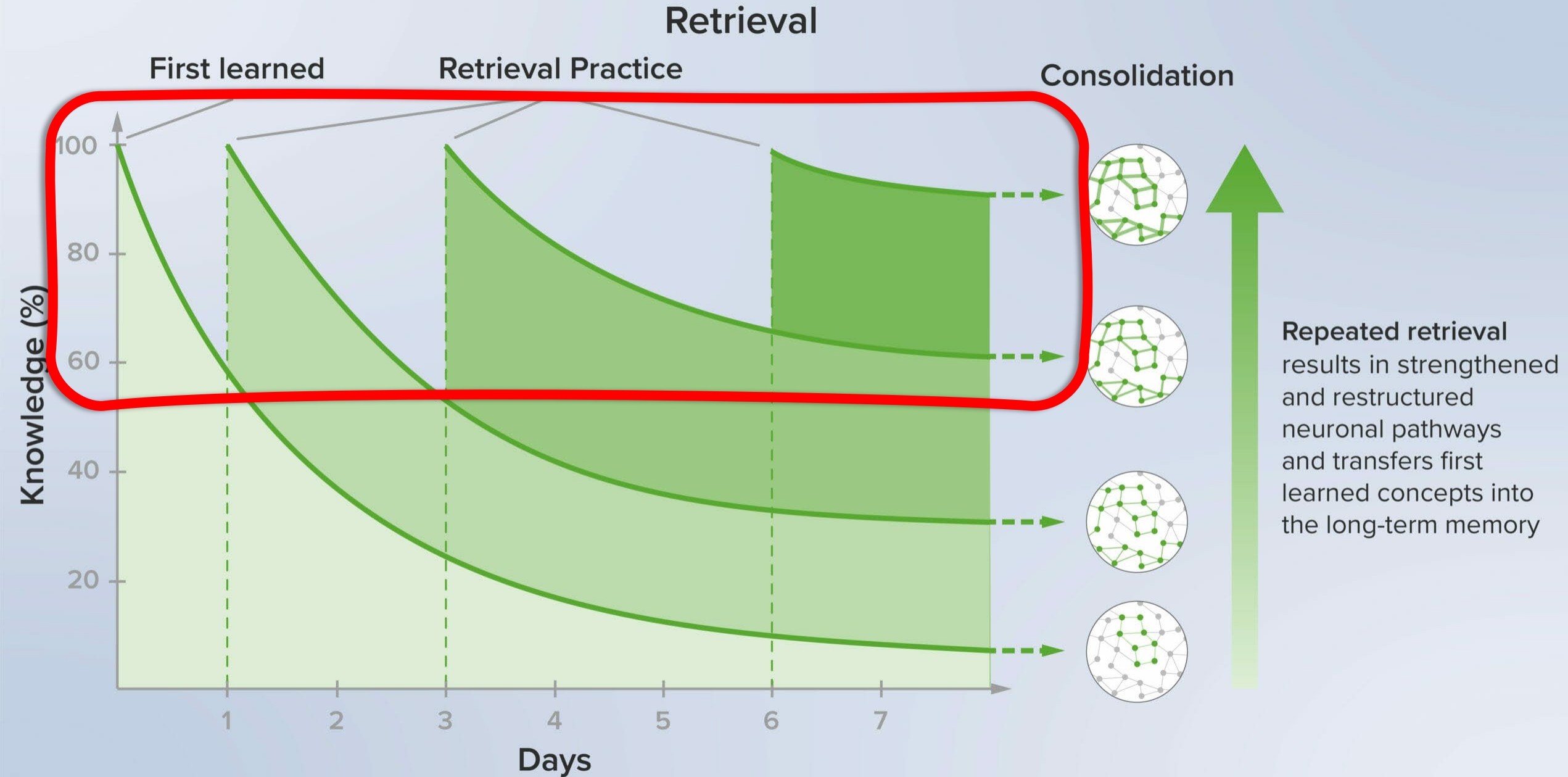
Memory model



TENBURYHIGH
ORMISTON ACADEMY



Distributed retrieval



Understanding GCSE Maths in Year 11



- Students sit three exams: two calculator papers and one non-calculator
- All topics from Years 7–11 can be assessed in any paper
- Questions test methods, reasoning, and problem solving skills may be presented as a calculation or imbedded into a worded problem

www.corbettmaths.com/contents	
GCSE Higher Tier Checklist	
Adding Fractions - Video 133 Multiplying Fractions - Video 142 Dividing Fractions - Video 134 Reciprocal - Video 145 Decimals - Video 90, 91, 92, 93, 94 Use of a Calculator - Video 352 Estimation - Video 215 Best Bets - Video 210 Currency - Video 214a Conversion Graphs - Video 151, 152 LCM/HCF - Video 218, 219 Product of Primes - Video 223, 224 Indices - Video 172, 174 Indices (fractional/negative) - Video 173, 175 Standard Form - Video 300, 301, 302, 303 Percentages of Amounts - Video 234, 235, 238 Percentage change - Video 233 Simple Interest - Video 236a Compound Interest - Video 236 Reverse Percentages - Video 240 Recurring Decimals to Fractions - Video 96 Ratios - Video 270, 271, 271a, 271b, 271c Direct Proportion - Video 254 Inverse Proportion - Video 255 Proportional Graphs - Video 255b Proportion (application) - Video 255c Limits of Accuracy - Video 183, 184 Rounds - Video 305, 306, 307, 308 Product Rule for Counting - Video 383 Error Intervals - Video 377, 280 Collecting Like Terms - Video 9 Expanding Brackets - Video 13, 14, 15 Factorising - Video 117 Factorising Quadratics - Video 118, 119, 120, 119a Algebraic Fractions - Video 21, 22, 23, 24 Sequences (nth term) - Video 288, 289 nth term (quadratic) - Video 386 Substitution - Video 20 Equations - Video 110, 111, 114, 115 Changing the Subject - Video 7, 8 Inequalities - Video 177, 178, 179 Inequalities (Regions) - Video 182 Quadratic Inequalities - Video 378 Linear Graphs - Video 191, 186, 189, 194 Midpoint of a Line - Video 198 Distance between 2 points - Video 185 Real-Life Linear Graphs - Video 171a Parallel or Perpendicular Lines - Video 196, 197 Simultaneous Equations - Video 295 Non-linear Simultaneous Equations - Video 298 Graphical Simultaneous Equations - Video 297	Angles in Parallel Lines - Video 25, 39 Bearings - Video 26, 27 Angles in Polygons - Video 32 Constructions - Video 78, 72, 79, 80, 70 Loci - Video 75, 76, 77 Vases - Video 354 Area of a Trapezium - Video 48 Circumference - Video 60 Area of a Circle - Video 40 Arc Length - Video 58 Area of a Sector - Video 48 Volume of a Cylinder - Video 357 Pythagoras - Video 257, 259 Trigonometry - Video 329, 330, 331 3D Trig and Pythagoras - Video 259, 332 Exact Trig Values - Video 341 Volume of a Prism - Video 356 Volume of a Cone/Pyramid/Sphere - Video 359-361 Volume of a Frustum - Video 360a Surface Area of a Prism - Video 311 Surface Area of a Cone/Sphere - Video 314, 313 Metric Units (area/volume) - Video 350, 351 Translations - Video 325 Reflections - Video 272 Rotations - Video 275 Enlargements - Video 104, 106, 107, 108 Similar Shapes - Video 292, 293a, 293b Circle Theorems - Video 64, 65 Sine Rule - Video 333 Cosine Rule - Video 335, 336 1/2abSinC - Video 337 Vectors - Video 353 Column Vectors - Video 353a Travel Graphs - Video 171 Speed, Distance, Time - Video 299 Density - Video 384 Pressure - Video 385 Geometric Proof - Video 366 Congruent Triangles - Video 67 Invariant Points - Video 392 Frequency Trees - Video 376 Two-way Tables - Video 319 Pie Charts - Video 163, 164 Scatter Graphs - Video 165, 166 Histograms - Video 157, 158, 159 Cumulative Frequency - Video 153, 154 Box Plots - Video 149 Quartiles - Video 57a Estimated Mean - Video 55 Combined Mean - Video 53a Median (frequency table) - Video 51, 52 Modal class (frequency table) - Video 56a Probability - Video 250 Relative frequency - Video 248 Samples - Video 281a Tree Diagrams - Video 252 Conditional Probability - Video 247 Venn Diagrams - Video 380 Equation of a Circle - Video 12 Equation of a tangent - Video 372 Instantaneous rates of change - Video 390a Average rates of change - Video 390b Area under a curve - Video 389 Composite Functions - Video 370 Inverse Functions - Video 369 Quadratic Graphs - Video 264 Solving Quadratics Graphically - Video 367c, 367d Sketching Quadratics - Video 265 Trigonometric Graphs - Video 338, 339 Cubic Graphs - Video 344 Pythagoras - Video 257 Reciprocal Graphs - Video 346 Exponential Graphs - Video 345 Similar Shapes (sides) - Video 375 Algebraic Proof - Video 365 Quadratic Formula - Video 267 Completing the Square - Video 10, 371 Transformations of Graphs - Video 323, 324 Identities - Video 16a Iteration - Video 373, 373a, 373b

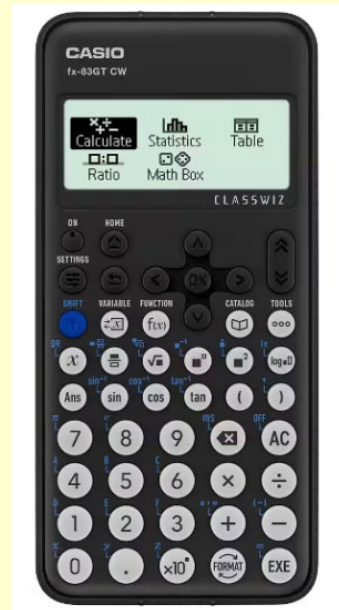
www.corbettmaths.com/contents

GCSE Foundation Tier Checklist

Angle Facts - Video 35, 30, 34, 39
 Types of Angle - Video 38
 Angles in Parallel Lines - Video 25
 Angles in a Triangle - Video 37
 Angles in a Quadrilateral - Video 33
 Angles in Polygons - Video 32
 Bearings - Video 26, 27
 Scales & Maps - Video 283
 Perimeter - Video 241
 Area of Rectangles/Triangles - Videos 45, 49
 Area of a Trapezium - Video 48
 Units - Video 347, 349
 Sensible Estimates - Video 285
 Line Symmetry - Video 316
 Rotational Symmetry - Video 317
 Constructions - Video 72, 78, 83
 Loci - Video 75, 76, 77
 Faces, Edges, Vertices - Videos 5, 3
 Nets - Video 4
 Views and Elevations - Video 354
 Time Calculations - Video 322
 Timetables - Video 320
 Distance Charts - Video 318
 Speed, Distance, Time - Video 299
 Travel Graphs - Video 171
 Density - Video 384
 Pressure - Video 385
 Translations - Video 325, 326
 Reflections - Video 272, 273
 Rotations - Video 275
 Enlargements - Video 104, 105, 107
 Parts of the Circle - Video 61
 Circumference - Video 60, 243
 Area of a Circle - Video 59, 47
 Arc Length - Video 58
 Area of a Sector - Video 46
 Volume of a Cylinder - Video 357
 Pythagoras - Video 287
 Trigonometry - Video 329, 330, 331
 Exact Trig Values - Video 341
 Similar Shapes (sides) - Video 292
 Congruent Triangles - Video 67
 Volume of a Cuboid/Prism - Video 355, 356
 Volume of a Sphere/Cone - Video 359, 361
 Surface Area - Video 310
 Surface area of Sphere/Cone - Videos 313, 314
 Vectors - Video 353a, 353

Multiplication - Video 199, 200
 Division - Video 98
 Addition - Video 6
 Subtraction - Video 304
 Rounding - Video 276, 277a, 277b, 278, 280
 Estimation - Video 215
 Order of Operations - Video 211
 Ordering Decimals - Video 95
 Arithmetic with Decimals - Videos 90, 91, 92, 93, 94
 Multiples and Factors - Video 220, 216
 Prime Numbers - Video 225
 Square Numbers and Square Roots - Video 226, 228
 Cube Numbers and Cube Roots - Video 212, 214
 Product of Primes - Video 223
 LCM/HCF - Video 218, 219, 224
 Indices - Video 172, 174
 Negative Indices - Video 175
 Standard Form - Video 300, 302, 303
 Fractions of Amounts - Video 137
 Adding Fractions - Video 133
 Multiplying Fractions - Video 142
 Dividing Fractions - Video 134
 Reciprocals - Video 145
 Fractions, Decimals, Percentages - Videos 121 to 129
 Expressing as Fraction or % - Video 136, 237
 Percentages of Amounts - Video 234, 235, 238
 Percentage Change - Video 233
 Simple Interest - Video 236a
 Compound Interest - Video 236
 Reverse Percentages - Video 240
 Ratio - Videos 269, 270, 271
 Currency - Video 214a
 Recipes - Video 256
 Negative Numbers - Video 205-209
 Place Value - Video 222, 222a
 Error Intervals - Video 377
 Money - Video 400
 Best Bets - Video 210
 Proportion - Video 255a, 254
 Use of a Calculator - Video 352

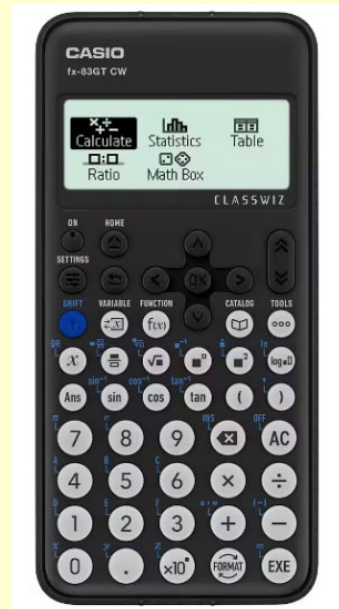
Tally Charts - Video 321
 Frequency Trees - Video 376
 Two-way Tables - Video 319
 Pictograms - Video 161, 162
 Bar Charts - Video 147, 148
 Line Graphs - Video 160
 Pie Charts - Video 163, 164
 Probability - Video 245, 246, 248
 Relative Frequency - Video 248
 Listing Outcomes - Video 253
 Scatter Graphs - Video 165 to 168
 Averages & Range - Video 56, 50, 53, 57
 Mode: Frequency Table - Video 55a
 Median: Frequency Table - Video 51
 Combined Mean - Video 53a
 Estimated Mean - Video 55
 Venn Diagrams - Video 380
 Tree Diagrams - Video 252
 Reading Tables - Video 387
 Sampling - Video 281a
 Coordinates - Video 84
 Function Machine - Video 386
 Writing Expressions - Video 16
 Collecting Like Terms - Video 9
 Multiplying & Dividing Terms - Videos 18, 11
 Laws of Indices - Video 174
 Sequences - Video 286, 287, 290, 287a
 Geometric Progressions - Video 375
 The nth Term - Video 288
 Expanding Brackets - Video 13, 14
 Factorising - Video 117
 Factorising Quadratics - Video 118, 120
 Solving Equations - Video 110, 113, 266
 Forming Equations - Video 114, 115
 Inequalities - Video 177, 178, 179
 Conversion Graphs - Video 151
 Drawing Linear Graphs - Video 186
 $y = mx + c$ - Video 191
 Gradient - Video 189
 Real Life Graphs - Video 171a
 Parallel graphs - Video 196
 Substitution - Video 20
 Changing the Subject - Video 7
 Simultaneous Equations - Video 295, 297
 Quadratic Graphs - Video 264
 Cubic Graphs - Video 344
 Reciprocal Graphs - Video 346



The Role of Parents in Supporting Revision



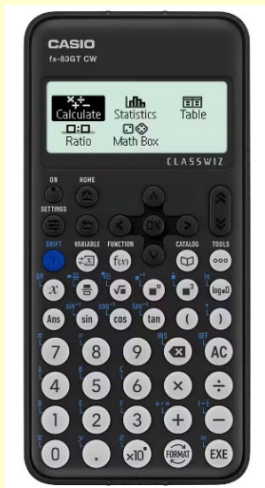
- You do not need to know how to do the maths yourself, I will show you some resources which can support your child
- Your encouragement and routines make a big difference
- Helping students stay organised and motivated is key
- Positive attitudes towards maths build confidence
- Pointing students in the right direction and helping them to know what to study and when is key



Creating a Strong Revision Routine at Home



- Encourage short, regular revision sessions (20–40 minutes)
- Maths revision is most effective when done little and often
- Support the use of a revision timetable
- Most pupils will need to focus on A01 skills first so they can remember how to do a particular skill then they need to add difficulty by trying reasoning and problem solving questions. If they start with the more difficult skill it can be discouraging as it will seem too difficult so start by building confidence then build complexity.
- As exams draw closer, complete past exam papers in timed conditions to replicate the exam environment (90 minutes)



The revision cycle. Start by finding out what they do/don't know...



Assess the impact of the revision!

What do/ don't they know?

Active revision

Next steps to improve learning/assessment

Highlight the #s that apply to you. Response to your relearning tasks in red pen on your exam paper / in your book.

#1. Revisit Pythagoras's formula and substitute given values while redoing question 4. Be aware of the type of triangle being used and how that affects the equation.

#2. Revisit trigonometry in split triangles on a perpendicular for two right-angled triangles, then redo your response to question 5.

#3. You need to reference each value in your method. Redo your response to question 9 with more of your method written.

#4. You need to be more accurate during your method and not round too much too soon. Redo your response to question 3 and try to round at the very end.

#5. You need to keep $\sqrt{3}$ as a surd (in square root form). Redo your response to question 9 using this.

- Writing out method / what you type and get on your calculator display.
- Be careful and avoid early rounding as it reduced accuracy.

Question 3 ✓
167 mins

288c Determine if a triangle is right-angled or if it is possible to construct (converse of Pythagoras' theorem). [Review](#)

CORRECT ANSWER:
[See full markscheme](#)

The triangle can not be constructed.

STUDENT ANSWER:
The triangle can not be constructed.

[Write a new comment](#)

Question 4 ✗
167 mins

288d Use Pythagoras' theorem to find a length in an isosceles triangle. [Review](#)

CORRECT ANSWER:
[See full markscheme](#)

$y = 8.5$ cm

STUDENT ANSWER:
 $y = 10$ cm

[Write a new comment](#)

PQR is an isosceles triangle where $PQ = QR$.

Find the length marked y on the diagram.
Give your answer correct to 1 decimal place.

[Write a new comment](#)

TENBURY HIGH
ORMISTON ACADEMY

End of Unit Assessment

GM5 – Right-angled Triangles

Surname		Forename	
Centre number		Candidate number	
Class teacher		Total marks available	
Raw marks scored	/	Percentage	%

Question Level Analysis (raw marks to be inputted by pupils)			
Question Number	Raw Mark	Question Number	Raw Mark
1		6	
2		7	
3		8	
4		9	
5			

AQA

Please write clearly in block capitals.

Centre number Candidate number

Surname

Forename(s)

Candidate signature

I declare this is my own work.

GCSE MATHEMATICS

Higher Tier Paper 1 Non-Calculator

Friday 19 May 2023 Morning Time allowed: 1 hour 30 minutes

Materials
For this paper you must have:
• mathematical instruments
• the Formulae Sheet (enclosed).

You must not use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

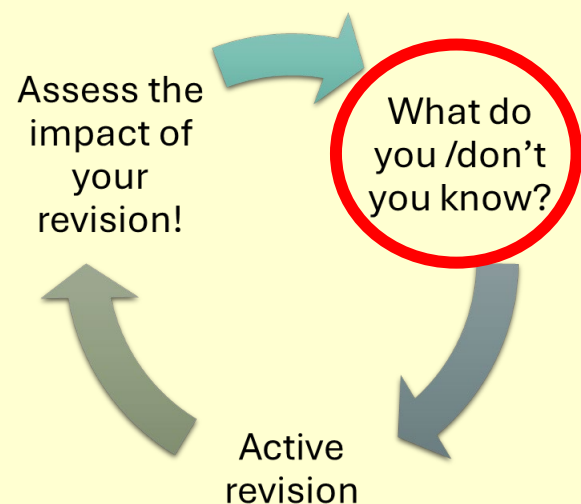
Advice
In all calculations, show clearly how you work out your answer.

For Examiner's Use	
Pages	Mark
2-3	
4-5	
6-7	
8-9	
10-11	
12-13	
14-15	
16-17	
18-19	
20-21	
22-23	
TOTAL	

Barcode: JUN 23 8 30 01 H 01

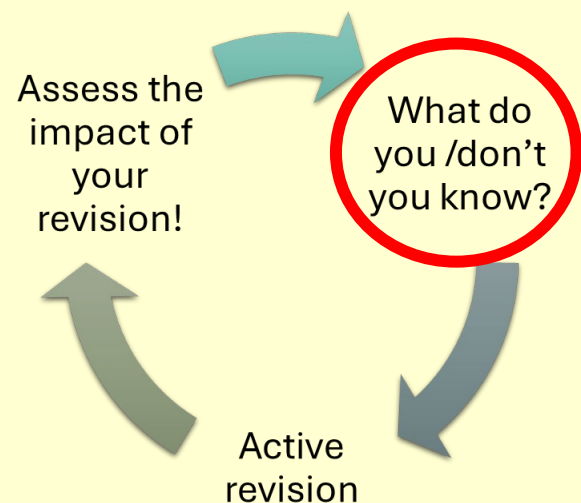
8300/1H

Revision checklist (KS4)



Key Knowledge Points						Revision		Knowledge	
Unit	Spec. Re	Stran	Substrand	Knowledge	Tier	Sparx Cod	Corbett Maths	Before	After
NP9	N6	Number	Roots and powers	Estimating roots and powers	H	U299			
NP9	N2	Number	Number skills	Using a calculator	F	U926	352		
A2	A4	Number	Index rules	Index rules with positive indices	F	U235	174		
A2	A4	Number	Index rules	Index rules with negative indices	F	U694	175		
NP9	N14	Number	Rounding	Estimating calculations	F	U225	215		
NP9	N15	Number	Rounding	Finding error intervals	F	U657	377		
NP9	N15	Number	Rounding	Truncating decimals	F	U108			
NP9	N15	Number	Rounding	Finding error intervals for truncated numbers	F	U301			
NP8	N10	Number	Fractions, decimals and percentages	Converting between fractions, decimals and percentages	F	U888	130		
NP8	N1	Number	Fractions, decimals and percentages	Ordering fractions, decimals and percentages	F	U594	131		
NP8	R9	Number	Fractions, decimals and percentages	Writing numbers as percentages of other numbers	F	U925	237		
NP8	R9	Number	Fractions and percentages of amounts	Finding percentages of amounts without a calculator	F	U554	234		
NP8	R9	Number	Fractions and percentages of amounts	Finding percentages of amounts with a calculator	F	U349	235		
NP8	R9	Number	Percentage change	Percentage change without a calculator	F	U773	233		
NP8	R9	Number	Percentage change	Percentage change with a calculator	F	U671	233		
NP8	R9	Number	Percentage change	Finding original values in percentage calculations	F	U286	240		
NP8	R9	Number	Percentage change	Finding the percentage an amount has been changed by	F	U278	240		
A2	A1	Algebra	Algebraic notation	Using algebraic notation	F	U613	19		
A1	A2	Algebra	Substituting	Substituting into expressions	F	U201	20		
A2	A4	Algebra	Simplifying expressions	Simplifying expressions by collecting like terms	F	U105	9		
A2	A4	Algebra	Simplifying expressions	Simplifying expressions using index laws	F	U662	174		
A3	A4	Algebra	Brackets	Expanding single brackets	F	U179	13		
A3	A4	Algebra	Brackets	Expanding double brackets	F	U768	14		
A3	A4	Algebra	Brackets	Factorising into one bracket	F	U365	117		
A1	A17	Algebra	Solving equations	Solving equations with one step	F	U755	110		

Use the QLA



Year 11 Mock (Foundation) Exam Feedback Sheet PAPER 1

Q	Knowledge	Spec Ref	AO	Max Mark	My Mark
1a	Sequence	A23	AO1	1	1
1b	Sequence	A23	AO1	1	1
1c	Sequence including negative	A23	AO3	1	1
1d	Negative product	N2	AO1	1	1
2a	Multiples	N4	AO1	1	1
2b	Factors	N4	AO1	1	1
2c	Prime number	N4	AO1	1	1
2d	Square number	N6	AO1	1	1
3	Pictogram problem	S2	AO2	3	3
4a	Reading value from graph	A14	AO2	1	1
4b	Ratio from graph	R10 A14	AO2	2	2
5	multiplication	N3	AO1 (1) AO3(2)	3	3
6	Money and profit problem	R11 N2(2)	AO1 (1) AO3(2)	3	0
7a	Money problem using assumption	N2	AO3	3	1
7b	Effect of assumption	N2	AO3	1	0
8	Recipe problem	R10	AO1 (1) AO2 (2)	3	0
9a	Simplify ratio	R4	AO1	3	3
9b	Probability	P7	AO1	1	1
10	Substitute into expression, indices	N6 A2(2)	AO1	3	3
11	Construct circle from diameter	G2	AO3	1	1
12a	Fraction of a quantity	N2, N12	AO1	3	3
12b	Divide in a ratio	R5	AO1	3	3
13	Angles on a straight line	A3(2) G3	AO1	3	3
14a	Calculation	N3 N14	AO1	3	1
14b	Check by rounding	N14	AO3	1	1
15a	Diameter to radius	G9	AO2	1	1
15b	Sphere volume in terms of pi	N8 G17	AO1	2	1
16a	Inverse proportion	A2(2) R10	AO1	3	0

Now let's work on the areas you do not know!



Assess the impact of your revision!

What do you /don't you know?

Active revision

Formula for area of a circle

Formula for compound interest

Q	Answer	Mark	Comments
	(0).35	B1	oe
Additional Guidance			
Mark the answer line. If this is blank, mark the working			
If values are given in one or more forms, either on the answer line or in working with nothing on the answer line, all values must be correct			
1(a)	eg1 $0.35 = \frac{7}{20}$ on answer line	B1	
	eg2 $\frac{35}{100}$ and 3.5 in working with $\frac{35}{100}$ on answer line	B1	
	eg3 $\frac{35}{100}$ and 3.5 in working with 3.5 on answer line	B0	
	eg4 $\frac{35}{100}$ and 3.5 in working with answer line blank	B0	

Videos and Workbooks

Click here for answers

2D shapes: name [Video 1](#) [Practice Questions](#)

2D shapes: quadrilaterals [Video 2](#) [Practice Questions](#)

3D shapes: names [Video 3](#) [Practice Questions](#)



2025 GCSE maths
Start preparing now
[TOPICS] Every GCSE maths topic
[MINI MOCKS] 20 minute practice papers
[PREDICTIONS] Full practice papers
[HALF PREDICTIONS] Half-length practice papers
[DEMON QUESTIONS] Only the hardest questions



Remaining Topics
Which topics do you need to revise for paper 3?
A list of tasks for every topic that you should prioritise for paper 3.



The revisionator
Want a completely randomised paper?
The Revisionator will generate a random paper weighted by



Grade 4 course
Designed for resits
We have started writing a complete course to help students achieve **grade 4**.



Revision notes
Where do you start with your revision?
Ultimate subscribers can download our daily revision



Courses
A level and GCSE
We have started writing courses for all students studying GCSE and A Level Maths.



Revision central
Do you need to organise your revision?
Revision central is a great area to find all of our resources.

Revision Team (KS4)



Maths (F and H) Posts Files

+ New Upload Edit in grid view Share Copy link Sync All Documents

Maths (F and H)

Name	Modified	Modified By	+ Add column
001 Specification	July 30, 2024	Kit Williams	
002 Revision checklist	July 30, 2024	Kit Williams	
003 Vocabulary and definitions	July 30, 2024	Kit Williams	
004 Revision lessons	July 30, 2024	Kit Williams	
005 End of unit tests and marks schemes	July 30, 2024	Kit Williams	
006 Past exams papers and mark schemes	July 30, 2024	Kit Williams	
007 Revision Mats (printed in tutor rooms)	6 hours ago	Harry Watts	
GCSE Maths Tutor YOUTUBE.url	About a minute ago	Harry Watts	
How to set up On Maths and watch Corbett...	9 minutes ago	Harry Watts	
How to use Dr Frost for revision.pdf	9 minutes ago	Harry Watts	

We will continue to add more to this channel throughout the rest of the year










<https://teams.microsoft.com/v2/>

[https://ormistonacademiestrust.sharepoint.com/:f:/r/sites/msteams_d7b9cb/Shared%20Documents/Maths%20\(F%20and%20H\)?csf=1&web=1&e=on8KYi](https://ormistonacademiestrust.sharepoint.com/:f:/r/sites/msteams_d7b9cb/Shared%20Documents/Maths%20(F%20and%20H)?csf=1&web=1&e=on8KYi)














Using Exam Questions (KS4)



Maths (F and H) > 006 Past exams papers and mark schemes

 Name ▾	Modified ▾	Modified By ▾	+ Add column
 June 2017	July 30, 2024	Kit Williams	
 June 2018	July 30, 2024	Kit Williams	
 June 2019	July 30, 2024	Kit Williams	
 June 2022 - Mocks from 2023	July 30, 2024	Kit Williams	
 November 2019	July 30, 2024	Kit Williams	
 November 2020	July 30, 2024	Kit Williams	
 November 2021	July 30, 2024	Kit Williams	
 Practice Papers	July 30, 2024	Kit Williams	

Maths (F and H) > 006 Past exams papers and mark schemes > June 2018

 Name ▾	Modified ▾	Modified By ▾	+ Add
 Foundation MS Paper 1 June 18.pdf	July 30, 2024	Kit Williams	
 Foundation MS Paper 2 June 18.pdf	July 30, 2024	Kit Williams	
 Foundation MS Paper 3 June 18.pdf	July 30, 2024	Kit Williams	
 Foundation Paper 1 June 18.pdf	July 30, 2024	Kit Williams	
 Foundation Paper 2 June 18.pdf	July 30, 2024	Kit Williams	
 Foundation Paper 3 June 18.pdf	July 30, 2024	Kit Williams	
 Higher MS Paper 1 June 18.pdf	July 30, 2024	Kit Williams	
 Higher MS Paper 2 June 18.pdf	July 30, 2024	Kit Williams	
 Higher MS Paper 3 June 18.pdf	July 30, 2024	Kit Williams	
 Higher Paper 1 June 18.pdf	July 30, 2024	Kit Williams	
 Higher Paper 2 June 18.pdf	July 30, 2024	Kit Williams	
 Higher Paper 3 June 18.pdf	July 30, 2024	Kit Williams	



They can access previous exams through teams and then mark their answers using the mark scheme.

They can use Corbett Maths and their revision guide to help with answering questions they find challenging.



Using Exam Questions (KS4)

First Class Maths has targeted topic revision with revision videos and they can check their answers.



Algebraic Fractions (Equations)



























REVISE THIS TOPIC

CHECK YOUR ANSWERS

1

Solve $\frac{x+9}{5} + \frac{x+2}{4} = 5$

[3 marks]

Topic	Video Explanation	Exam Questions	Solutions	Grade	Past Series Appearance*
Algebraic Fractions (Equations)				8+	36%
Algebraic Fractions (Simplifying)				8+	91%
Algebraic Proof				8+	55%
Circle Theorems Proofs				8+	0%
Equation of a Tangent to a Circle				8+	36%
Non-linear Simultaneous Equations				8+	45%
Quadratic Inequalities				8+	45%
Rationalise the Denominator				8+	55%
Speed Time Graphs				8+	91%
Transformations of Graphs				8+	64%
Vectors (Higher)				8+	82%
3D Trig and Pythagoras				7+	55%
Algebraic Fractions (Operations)				7+	91%
Area of a Triangle (Using Trig)				7+	73%

Using Sparx as a revision resource



Sparx Maths

Independent Learning

440 XP

Queen of Maths

Menu

Compulsory

XP Boost

Target

Independent Learning

Independent learning

Geometry

Geometric proofs

Geometric proofs with congruence and similarity – U887

Level 3 ✓ ★ ★ ⓘ

▼ Show building blocks

Writing proofs that involve congruence

Introduce

Question 1

Answer

Question 2

Answer

Question 3

Answer

Question 4

Answer

Question 5

Answer

Strengthen

Question 1

Answer

Question 2

Answer

Question 3

Answer

Question 4

Answer

Question 5

Answer

Deepen

Question 1

Answer

Question 2

Answer

Question 3

Answer

Question 4

Answer

Using CorbettMaths as a revision resource



5-a-day GCSE 9-1


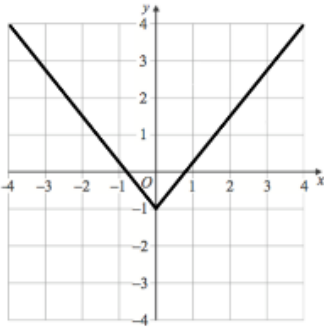
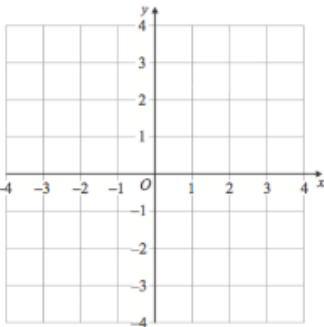
Numeracy 5aday – broadly designed for students aiming for Grades 1, 2 and 3.

Foundation – broadly designed for students aiming for Grades 3 and 4.

Foundation Plus – broadly designed for students aiming for Grades 4, 5 and 6.

Higher – broadly designed for students aiming for Grades 6 and 7.

Higher Plus – broadly designed for students aiming for Grades 8 and 9.

1st January	Higher Plus 5-a-day
Prove $(2n + 2)^2 - (2n + 1)$ is always odd for all positive values of n .	
Rationalise the denominator $\frac{3 + \sqrt{2}}{\sqrt{3}}$	
Shown is $f(x)$ 	Sketch the function $f(x + 1)$ 
$f(x) = 3x + 2$ $g(x) = x^2$ Find $fg(x)$	Find $gf(5)$



Videos and Worksheets

Click here for answers

2D shapes: names [Video 1](#) [Practice Questions](#) [Textbook Exercise](#)

2D shapes: quadrilaterals [Video 2](#) [Practice Questions](#) [Textbook Exercise](#)

3D shapes: names [Video 3](#) [Practice Questions](#) [Textbook Exercise](#)

3D shapes: nets [Video 4](#) [Practice Questions](#) [Textbook Exercise](#)

3D shapes: vertices, edges, faces [Video 5](#) [Practice Questions](#) [Textbook Exercise](#)

Addition: column method [Video 6](#) [Practice Questions](#) [Textbook Exercise](#)

Question 1: Solve the following equations using the quadratic formula.
Give your answers to 1 decimal place.

(a) $x^2 + 5x + 1 = 0$

(b) $2x^2 + 7x + 2 = 0$

(c) $4x^2 + 8x + 3 = 0$

(d) $x^2 + 2x - 4 = 0$

(e) $3x^2 + 4x - 5 = 0$

(f) $2x^2 + 5x - 10 = 0$

(g) $x^2 - 4x + 2 = 0$

(h) $7x^2 - 6x + 1 = 0$

(i) $3x^2 - 10x + 4 = 0$

(j) $x^2 - x - 11 = 0$

(k) $x^2 - 6x - 20 = 0$

(l) $2x^2 - x - 9 = 0$

(m) $9x^2 - 12x + 2 = 0$

(n) $4x^2 + 4x + 1 = 0$

(o) $8x^2 - 8x - 9 = 0$

(p) $2x^2 + 3x - 100 = 0$

(q) $3x^2 - 23x - 67 = 0$

(r) $2x^2 + 16x + 1 = 0$

Question 2: Solve the following equations using the quadratic formula.
Give your answers to 2 decimal places.

(a) $x^2 + 7x = 20$

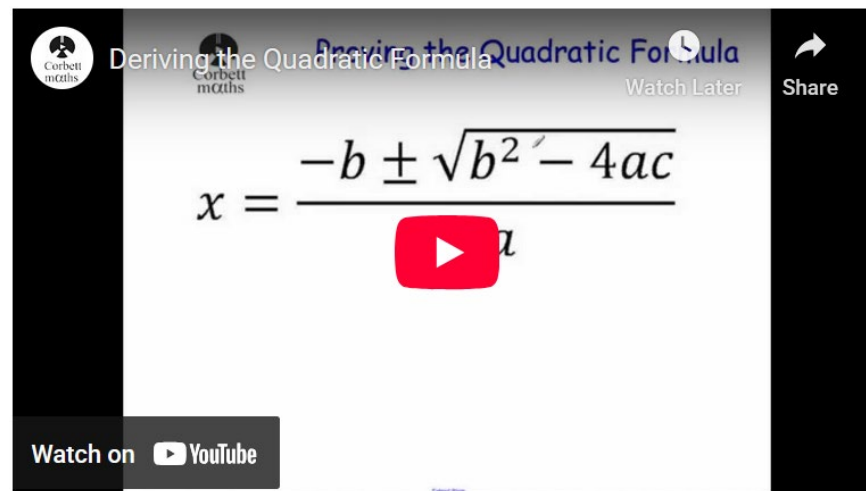
(b) $2x^2 = 9x + 40$

(c) $3x^2 = 10 - 2x$

(d) $x^2 - 8 = x$

(e) $7x = 13 - x^2$

(f) $4x^2 - 9 = 2x^2 + 4x$



Using CorbettMaths as a revision resource



Adding Fractions - Video 133
Multiplying Fractions - Video 142
Dividing Fractions - Video 134
Reciprocal - Video 145
Decimals - Video 90, 91, 92, 93, 94
Use of a Calculator - Video 352
Estimation - Video 215
Best Buys - Video 210
Currency - Video 214a
Conversion Graphs - Video 151, 152
LCM/HCF - Videos 218, 219
Product of Primes - Videos 223, 224
Indices - Video 172, 174
Indices (fractional/negative) - Videos 173, 175
Standard Form - Videos 300, 301, 302, 303
Percentage of Amounts - Videos 234, 235, 238
Percentage change - Video 233
Simple Interest - Video 236a
Compound Interest - Video 236
Reverse Percentages - Video 240
Recurring Decimals to Fractions - Video 96
Ratio - Videos 270, 271, 271a, 271b, 271c
Direct Proportion - Video 254
Inverse Proportion - Video 255
Proportional Graphs - Video 255b
Proportion (application) - Video 255c
Limits of Accuracy - Videos 183, 184
Surd - Videos 305, 306, 307, 308
Product Rule for Counting - Video 383
Error Intervals - Video 377, 280
Collecting Like Terms - Video 9
Expanding Brackets - Videos 13, 14, 15
Factorising - Video 117
Factorising Quadratics - Videos 118, 119, 120, 119a
Algebraic Fractions - Video 31, 22, 23, 24
Sequences (nth term) - Videos 288, 289
nth term (quadratics) - Video 388
Substitution - Video 26
Equations - Videos 110, 111, 114, 115
Changing the Subject - Videos 7, 8
Inequalities - Videos 177, 178, 179
Inequalities (Regions) - Video 182
Quadratic Inequalities - Video 378
Linear Graphs - Videos 191, 186, 189, 194
Midpoint of a Line - Video 198
Distance between 2 points - Video 185
Real-life Linear Graphs - Video 171a
Parallel or Perpendicular Lines - Videos 196, 197
Simultaneous Equations - Video 295
Non-linear Simultaneous Equations - Video 298

Angle Facts - Video 35, 30, 34, 39
Types of Angle - Video 38
Angles in Parallel Lines - Video 25
Angles in a Triangle - Video 37
Angles in a Quadrilateral - Video 33
Angles in Polygons - Video 32
Bearings - Video 26, 27
Scales & Maps - Video 283
Perimeter - Video 241
Area of Rectangles/Triangles - Videos 45, 49
Area of a Trapezium - Video 48
Units - Videos 347, 349
Sensible Estimates - Video 285
Line Symmetry - Video 316
Rotational Symmetry - Video 317
Constructions - Videos 72, 78, 83
Loc - Videos 75, 76, 77
Faces, Edges, Vertices - Videos 5, 3
Nets - Video 4
Views and Elevations - Video 354
Time Calculations - Video 322
Timetables - Video 320
Distance Charts - Video 318
Speed, Distance, Time - Video 299
Travel Graphs - Video 171
Density - Video 384
Pressure - Video 385
Translations - Video 325, 326
Reflections - Video 272, 273
Rotations - Video 275
Enlargements - Videos 104, 105, 107
Parts of the Circle - Video 61
Circumference - Video 60, 243
Area of a Circle - Video 59, 47
Arc Length - Video 58
Area of a Sector - Video 46
Volume of a Cylinder - Video 357
Pythagoras - Video 257
Trigonometry - Videos 329, 330, 331
Exact Trig Values - Video 341
Similar Shapes (sides) - Video 292
Congruent Triangles - Video 67
Volume of a Cuboid/Prism - Video 355, 356
Volume of a Sphere/Cone - Videos 359, 361
Surface Area - Video 310
Surface area of Sphere/Cone - Videos 313, 314
Vectors - Video 353a, 353

www.corbettmaths.com/contents



GCSE Higher Tier Checklist

Angles in Parallel Lines - Video 25, 39
Bearings - Video 26, 27
Angles in Polygons - Video 32
Constructions - Video 78, 72, 79, 80, 70
Loc - Videos 75, 76, 77
Views - Video 354
Area of a Trapezium - Video 48
Circumference - Video 60
Area of a Circle - Video 40
Arc Length - Video 58
Area of a Sector - Video 48
Volume of a Cylinder - Video 357
Pythagoras - Video 257, 259
Trigonometry - Videos 329, 330, 331
3D Trig and Pythagoras - Videos 259, 332
Exact Trig Values - Video 341
Volume of a Prism - Video 356
Volume of a Cone/Pyramid/Sphere - Videos 359-361
Volume of a Frustum - Video 360a
Surface Area of a Prism - Video 311
Surface Area of Cone/Sphere - Videos 314, 313
Metric Units (area/volume) - Videos 350, 351
Translations - Video 325
Reflections - Video 272
Rotations - Video 275
Enlargements - Videos 104, 106, 107, 108
Similar Shapes - Videos 292, 293a, 293b
Circle Theorems - Videos 64, 65
Sine Rule - Video 333
Cosine Rule - Video 335, 336
1/2abSinC - Video 337
Vectors - Video 353
Column Vectors - Video 353a
Travel Graphs - Video 171
Speed, Distance, Time - Video 299
Density - Video 384
Pressure - Video 385
Geometric Proof - Video 366
Congruent Triangles - Video 67
Invariant Points - Video 392

Frequency Trees - Video 376
Two-way Tables - Video 319
Pie Charts - Videos 163, 164
Scatter Graphs - Videos 165, 166
Histograms - Video 157, 158, 159
Cumulative Frequency - Videos 153, 154
Box Plots - Video 149
Quartiles - Video 57a
Estimated Mean - Video 55
Combined Mean - Video 53a
Median (frequency table) - Videos 51, 52
Modal class (frequency table) - Video 56a
Probability - Video 250
Relative frequency - Video 248
Samples - Video 281a
Tree Diagrams - Video 252
Conditional Probability - Video 247
Venn Diagrams - Video 380
Equation of a Circle - Video 12
Equation of a tangent - Video 372
Instantaneous rates of change - Video 390a
Average rates of change - Video 390b
Area under a curve - Video 389
Composite Functions - Video 370
Inverse Functions - Video 369
Quadratic Graphs - Video 264
Solving Quadratics Graphically - Videos 367c, 367d
Sketching Quadratics - Video 265
Trigonometric Graphs - Videos 338, 339
Cubic Graphs - Video 344
Reciprocal Graphs - Video 346
Exponential Graphs - Video 345
Geometric Sequences - Video 375
Algebraic Proof - Video 365
Quadratic Formula - Video 267
Completing the Square - Video 10, 371
Transformations of Graphs - Video 323, 324
Identities - Video 16a

www.corbettmaths.com/contents

GCSE Foundation Tier Checklist

Multiplication - Video 199, 200
Division - Video 98
Addition - Video 6
Subtraction - Video 304
Rounding - Video 276, 277a, 277b, 278, 280
Estimation - Video 215
Order of Operations - Video 211
Ordering Decimals - Video 9
Arithmetic with Decimals - Videos 90, 91, 92, 93, 94
Multiples and Factors - Videos 220, 216
Prime Numbers - Video 225
Square Numbers and Square Roots - Videos 226, 228
Cube Numbers and Cube Roots - Videos 212, 214
Product of Primes - Video 223
LCM/HCF - Videos 218, 219, 224
Indices - Videos 172, 174
Negative Indices - Video 175
Standard Form - Video 300, 302, 303
Fractions of Amounts - Video 137
Adding Fractions - Video 133
Multiplying Fractions - Video 142
Dividing Fractions - Video 134
Reciprocals - Video 145
Fractions, Decimals, Percentages - Videos 121 to 129
Expressing as Fraction or % - Videos 136, 237
Percentages of Amounts - Videos 234, 235, 238
Percentage Change - Video 233
Simple Interest - Video 236a
Compound Interest - Video 236
Reverse Percentages - Video 240
Ratio - Videos 269, 270, 271
Currency - Video 214a
Recipes - Video 256
Negative Numbers - Videos 205-209
Place Value - Video 222, 222a
Error Intervals - Video 377
Money - Video 400
Best Buys - Video 210
Proportion - Video 255a, 254
Use of a Calculator - Video 352

Tally Charts - Video 321
Frequency Trees - Video 376
Two-way Tables - Video 319
Pictograms - Videos 161, 162
Bar Charts - Videos 147, 148
Line Graphs - Video 160
Pie Charts - Video 163, 164
Probability - Videos 245, 246, 248
Relative Frequency - Video 248
Lifting Outcomes - Video 253
Scatter Graphs - Videos 165 to 168
Averages & Range - Video 56, 50, 53, 57
Mode: Frequency Table - Video 56a
Median: Frequency Table - Video 51
Combined Mean - Video 53a
Estimated Mean - Video 55
Venn Diagrams - Video 380
Tree Diagrams - Video 252
Reading Tables - Video 387
Samples - Video 281a
Expanding Brackets - Videos 13, 14
Factorising - Video 117
Solving Quadratics - Videos 118, 120
Finding Equations - Video 110, 113, 266
Forming Equations - Video 114, 115
Inequalities - Videos 177, 178, 179
Conversion Graphs - Video 151
Drawing Linear Graphs - Video 186
y = mx + c - Video 191
Gradient - Video 189
Real Life Graphs - Video 171a
Parallel graphs - Video 196
Substitution - Video 20
Changing the Subject - Video 7
Simultaneous Equations - Videos 295, 297
Quadratic Graphs - Video 264
Cubic Graphs - Video 344
Reciprocal Graphs - Video 346



A Bit of Everything Paper

[AQA Higher – A Bit of Everything Paper](#)

[AQA Higher – A BIT OF EVERYTHING answers Q1 to Q50](#)

[AQA Higher – A BIT OF EVERYTHING answers Q51 to Q98](#)

Practice Papers

[Higher Set A Paper 1 – Non Calculator](#)

[Higher Set A Paper 2 – Calculator](#)

[Higher Set A Paper 3 – Calculator](#)

[Higher Set B Paper 1 – Non Calculator](#)

[Higher Set B Paper 2 – Calculator](#)

[Higher Set B Paper 3 – Calculator](#)

[Higher Set C Paper 1 – Non Calculator](#)

[Higher Set C Paper 2 – Calculator](#)

[Higher Set C Paper 3 – Calculator](#)

[Higher Set D Paper 1 – Non Calculator](#)

[Higher Set D Paper 2 – Calculator](#)

[Higher Set D Paper 3 – Calculator](#)

A Bit of Everything Paper

[AQA Foundation – A Bit of Everything Paper](#)

[AQA Foundation – A BIT OF EVERYTHING answers Q1 to Q50](#)

[AQA Foundation – A BIT OF EVERYTHING answers Q51 to Q116](#)

Practice Papers

[Foundation Set A Paper 1 – Non Calculator](#)

[Foundation Set A Paper 2 – Calculator](#)

[Foundation Set A Paper 3 – Calculator](#)

[Foundation Set B Paper 1 – Non Calculator](#)

[Foundation Set B Paper 2 – Calculator](#)

[Foundation Set B Paper 3 – Calculator](#)

[Foundation Set C Paper 1 – Non Calculator](#)

[Foundation Set C Paper 2 – Calculator](#)

[Foundation Set C Paper 3 – Calculator](#)

[Foundation Set D Paper 1 – Non Calculator](#)

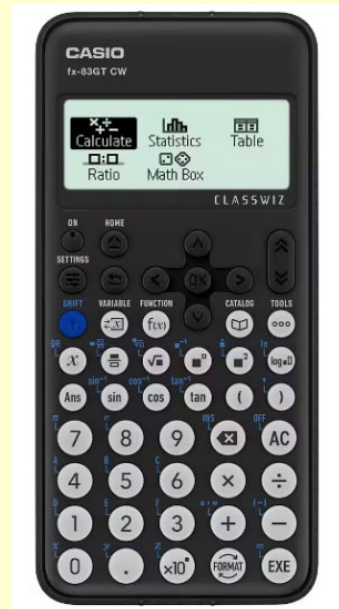
[Foundation Set D Paper 2 – Calculator](#)

[Foundation Set D Paper 3 – Calculator](#)

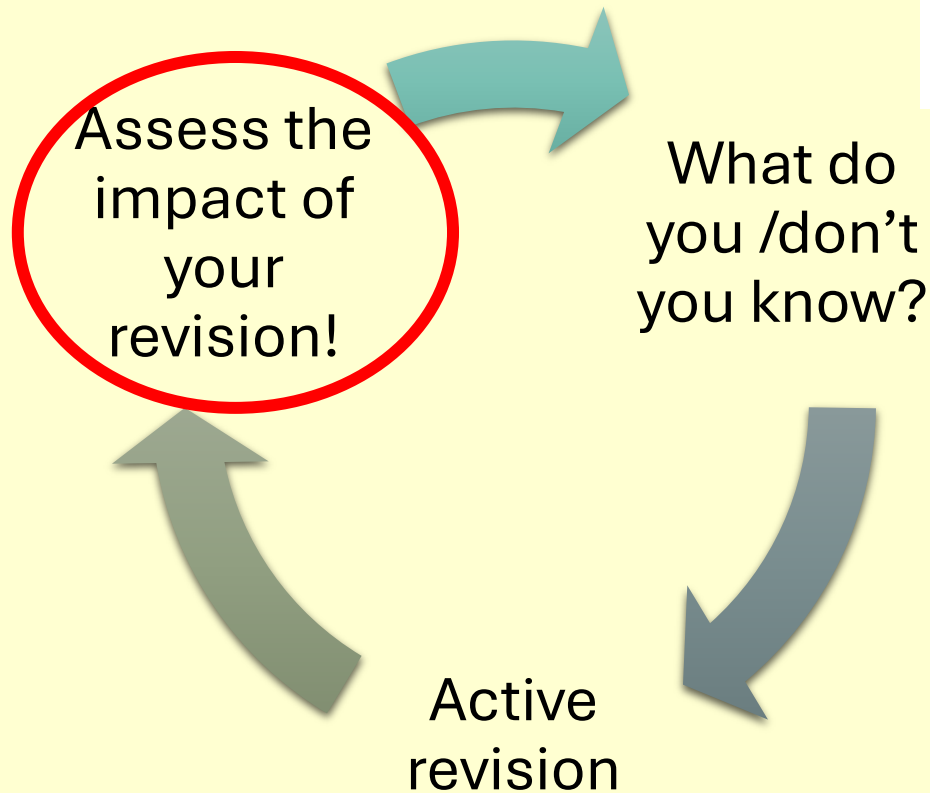
Using GCSE Maths Revision Guides



- Revision guides provide clear summaries of key GCSE Maths topics
 - They are useful for refreshing knowledge before practising questions
 - Students should combine reading with practice, not just passive reading
 - Highlighting key points and making notes can help improve recall but they only way to imbed the learning is to do example questions



Time to assess the impact of your revision!



df Demo 114/Ma [HWA] Student
Tenbury High Ormiston Academy

Trophies 0/37 Points This Year 0 History 0 0 0

What to work on next?

[Start a Practice](#)

104 Basic fraction and decimal equivalence
19 Adding numbers up to 2 digits with answers up to 100

[Review Progress](#)

My Courses
GCSE Mathematics (Foundation)

Notifications

- You have been set a task by your teacher Mr H Watts. Click to start it.
- You have been set a task by your teacher Mr H Watts. Click to start it.
- You have been set a task by your teacher Mr H Watts. Click to start it.

My Homework

- Autumn 1 Week 8 Exam Questions Practise Due 2 months ago
- Autumn 1 Week 7

Q	Answer	Mark	Comments
	(0).35	B1	oe
Additional Guidance			
Mark the answer line. If this is blank, mark the working			
If values are given in one or more forms, either on the answer line or in working with nothing on the answer line, all values must be correct			
1(a)	eg1 $0.35 = \frac{7}{20}$ on answer line		B1
	eg2 $\frac{35}{100}$ and 3.5 in working with $\frac{35}{100}$ on answer line		B1
	eg3 $\frac{35}{100}$ and 3.5 in working with 3.5 on answer line		B0
	eg4 $\frac{35}{100}$ and 3.5 in working with answer line blank		B0

AQA

Please write clearly in block capitals.

Centre number Candidate number

Surname

Forename(s)

Candidate signature

I declare this is my own work.

GCSE MATHEMATICS

Higher Tier Paper 2 Calculator

Wednesday 7 June 2023 Morning Time allowed: 1 hour 30 minutes

Materials
For this paper you must have:

- a calculator
- mathematical instruments
- the Formulae Sheet (enclosed).

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

For Examiner's Use

Pages	Mark
2-3	
4-6	
6-7	
8-9	
10-11	
12-13	
14-15	
16-17	
18-19	
20-21	

onmaths

Predicted Papers Mini Predicted Papers Topics Demon Questions Mini Mocks

2025 GCSE maths
Start preparing now

[TOPICS] Every GCSE maths topic
[MINI MOCKS] 20 minute practice papers
[PREDICTIONS] Full practice papers
[HALF PREDICTIONS] Half-length practice papers
[DEMON QUESTIONS] Only the hardest questions

Remaining Topics
Which topics do you need to revise for paper 3?
A list of tasks for every topic that you should prioritise for paper 3.

Grade 4 course
Designed for resits
We have started writing a complete course to help students achieve **grade 4**.

Courses
A level and GCSE
We have started writing courses for all students studying GCSE and A Level Maths.

The revisionator
Want a completely randomised paper?
The Revisionator will generate a random paper weighted by

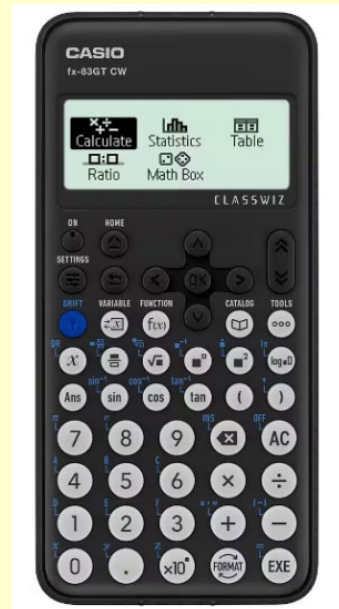
Revision notes
Where do you start with your revision?
Ultimate subscribers can download our daily revision

Revision central
Do you need to organise your revision?
Revision central is a great area to find all of our resources.

Common Maths Revision Mistakes to Avoid



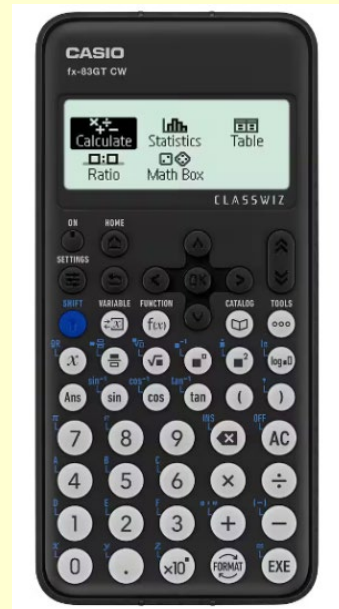
- Cramming revision into long sessions just before exams
 - Only revising topics students already feel confident with
 - Reading revision guides without practising questions
 - Avoiding difficult topics instead of revisiting them
 - Not checking answers or learning from mistakes



What Effective Maths Revision Looks Like



- Short, regular revision sessions spread over time
 - A mix of topics to keep all skills active in memory
 - Using resources: Sparx, First Class Maths, Corbett Maths, Teams
 - Practising the skill then building to exam-style questions
 - Reviewing mistakes and revisiting weaker topics



GCSE Maths Exam Technique Reminders



- Always show full working, even if unsure of the final answer
 - Marks are often awarded for correct methods
 - Encourage students to check answers if time allows
 - Use estimation to see if answers are sensible
 - Remind students to read questions carefully and BUG key information

Box the command word

(this will help you structure your answer)

Underline the key words

(this will help you jog your memory of any knowledge that may be relevant to the question)

Go back over the question

(this will help you check your understanding of the question; for longer responses, reread the question regularly to stay on track)

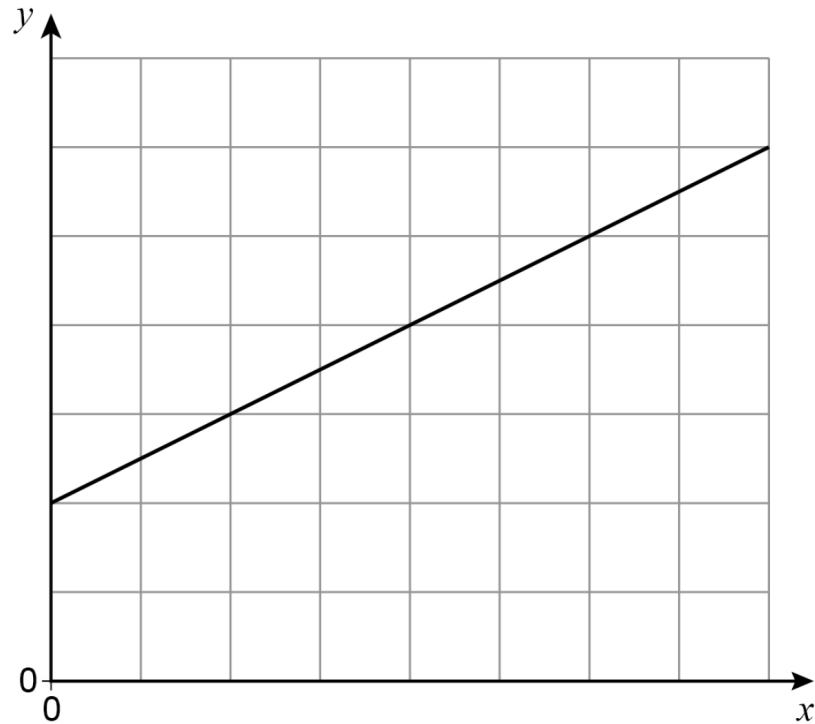


Identify the topic



Identify the topic by looking for key vocabulary in the question

A straight line is drawn on the centimetre grid.



Fay assumes that the scale is 1 cm represents 1 unit.

- (a) Use her assumption to work out the gradient of the line.

[1 mark]

Identify what you are being asked to do



Command words are important.

The height of Zak is 1.86 metres.

The height of Fred is 1.6 metres.

Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

Layout: crossing out



Make sure your working out is visible, even if you do cross out.

Factorise $6xy - 15y^2$

The expression $y(6x - 15y)$ is written in black ink but is almost entirely obscured by heavy, dark scribbles. A large red 'X' is drawn over the scribbled-out text, indicating this method is incorrect or poor practice.

The expression $y(6x - 15y)$ is written in black ink. A single diagonal line is drawn through the entire expression, from the top left to the bottom right. A large green checkmark is drawn below the expression, indicating this method is correct.

If you change your working out, cross out the bit you don't want marked.

Factorise $6xy - 15y^2$

The expression $3y(2x - 5y)$ is written in black ink.

The expression $y(6x - 15y)$ is written in black ink. A single diagonal line is drawn through the entire expression, from the top left to the bottom right, indicating it is to be discarded.



Layout: writing your answers

You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.

Information • You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

his pay is £80

he saves 30% of this pay.

How many **more** weeks must he save?

[4 marks]

$$\begin{array}{r} 30\% \text{ of } £80 \\ 10\% \text{ is } £8 \\ 3 \times 8 = £24 \\ 24 \times 10 = 240 \\ 24 \times 1 = 24 \\ \hline 264 \end{array}$$
$$\begin{array}{r} 2845 \\ - 96 \\ \hline 259 \end{array}$$

11 weeks

Write the answer on
the answer line.

Answer

11 weeks

Answering with statements



Jing has £2450

She saves some and gives the rest to her four brothers.

money saved : money given to brothers = 2 : 5

She gives each of her **four** brothers the **same** amount.

Does each brother receive more than £430 ?

You **must** show your working.

[4 marks]

$$2 + 5 = 7$$

$$2450 \div 7 = 350$$

$$2 \times 350 = 700$$

$$5 \times 350 = 1750$$

$$1750 \div 4 = 437.50$$

Yes. Each brother receives £437.50

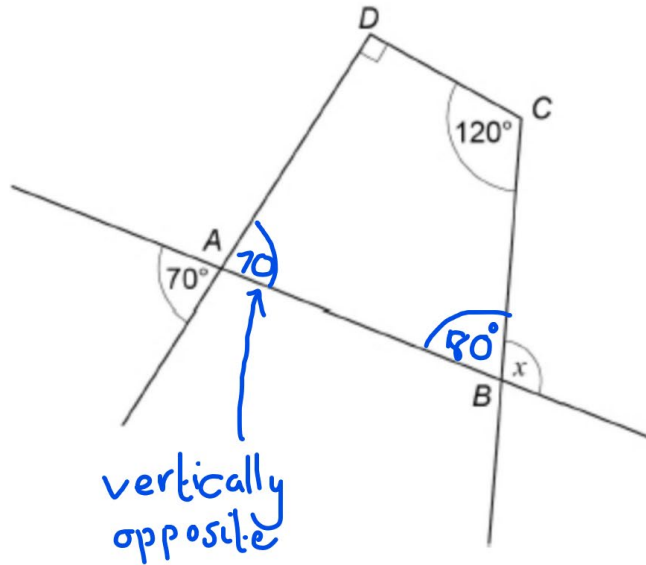
Answer this question.

Show your calculations.

Giving reasons



Sides are extended as shown.



Not drawn
accurately

Write on the diagram – it counts as
working out!

Show that $x = 100^\circ$

$$90 + 70 + 120 = 280^\circ$$

$$360 - 280 = 80^\circ \quad \text{Angles in a quadrilateral add up to } 360^\circ$$

$$x = 180 - 80$$

$$x = 100^\circ$$

Angles on a straight line add up to 180° .

Use the correct key words *and* write
down the matching calculations.

(Total 3 marks)

Draw a diagram



A cube has a total surface area of 150 cm^2

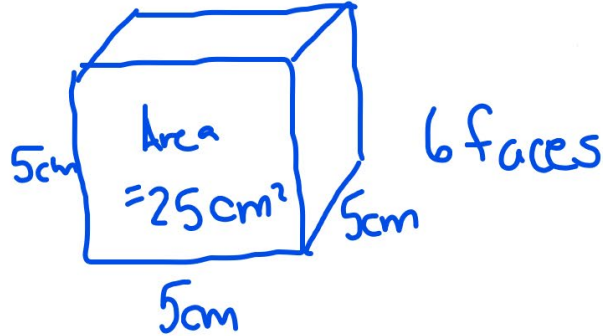
Work out the volume of the cube.

$$150 \div 6 = 25 \text{ cm}^2$$

$$25 \text{ cm}^2$$

$$\sqrt{25} = 5 \text{ cm}$$

Volume $5 \times 5 \times 5 = 125 \text{ cm}^3$



If it's tricky – draw a piccie!

..... 125 cm³

(Total for question = 4 marks)

Write down the units if they're not there



A reel holds 9.5 metres of ribbon.
2 pieces of ribbon are cut from the reel.
Each piece is 20 centimetres long.
What length of ribbon is left on the reel?
State the units of your answer.

[3 marks]

Answer _____

You must write down your units

Here are the heights, in centimetres, of some children.

98 103 91 85 159 102 91

Which height is an outlier?

[1 mark]

Answer _____ cm

The units are already on the answer line

Show your working out (for everything!)



Sam wants to buy a camera for £345

He has already saved £96

Each week

his pay is £80

he saves 30% of this pay.

How many **more** weeks must he save?

19	$345 - 96$ or 249	M1	
	$80 \div 10 \times 3$ or 24	M1	oe
	their $249 \div$ their 24 or their 24×10 or their 24×11	M1	Condone $345 \div 24$
	11	A1	

[4 marks]

30% of £80 10% is £8 $3 \times 8 = £24$

~~2345~~

-96

259

$24 \times 10 = 240$

$24 \times 1 = 24$
264

11 weeks

Answer

11 weeks

Check your answer makes sense



Billy wants to buy these tickets for a show.

4 adult tickets at £15 each

2 child tickets at £10 each

A 10% booking fee is added to the ticket price.

3% is then added for paying by credit card.

Work out the **total** charge for these tickets when paying by credit card.

£1796.4

8

?

38 tickets

?

The Formula Sheet



Perimeter, area and volume

Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

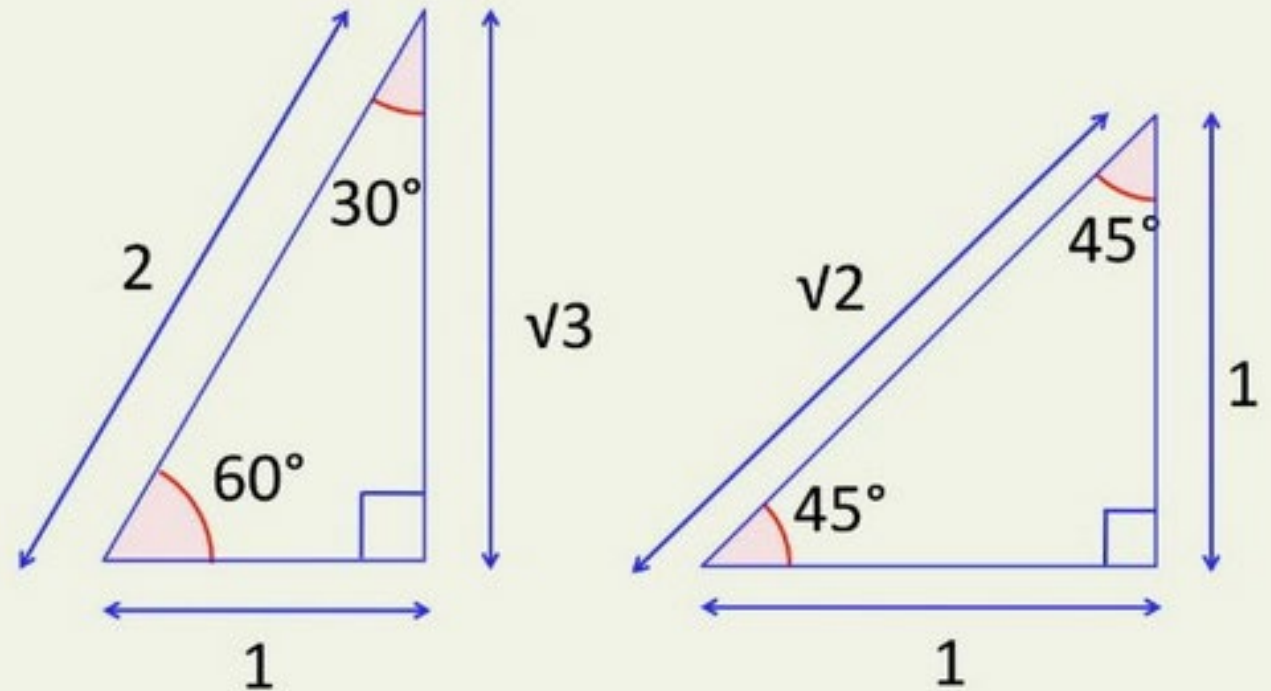
$$\text{Area of a trapezium} = \frac{1}{2}(a + b)h$$

Volume of a prism = area of cross section \times length

Where r is the radius and d is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

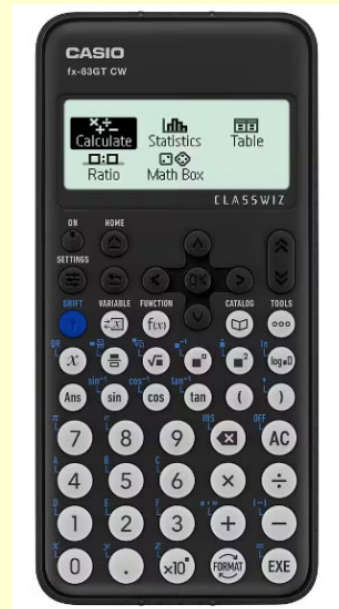
$$\text{Area of a circle} = \pi r^2$$



How Parents Can Help with Maths Revision



- Make sure your child has a scientific calculator and knows how to use it, this should be the same one they use in their exam so they know where each of the important keys are





Materials

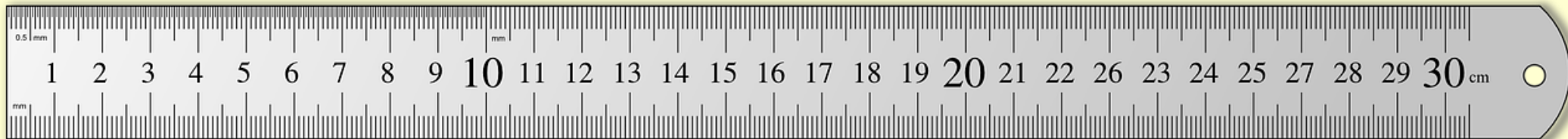
For this paper you must have:

- mathematical instruments

Used for:

- Drawing straight lines
- Measuring the length of lines

RULER





Materials

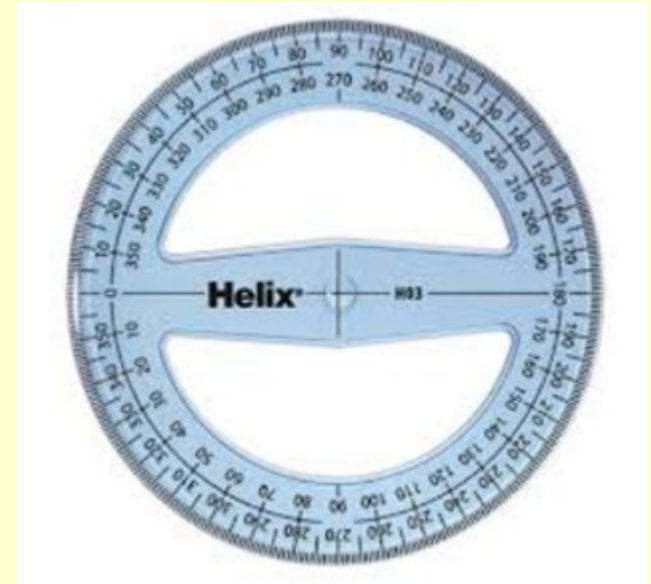
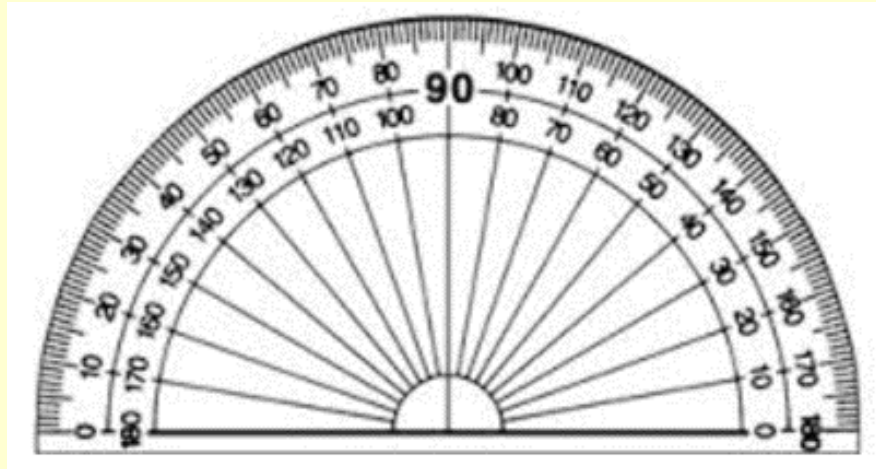
For this paper you must have:

- mathematical instruments

Used for:

- Drawing angles
- Measuring angles

PROTRACTOR





Materials

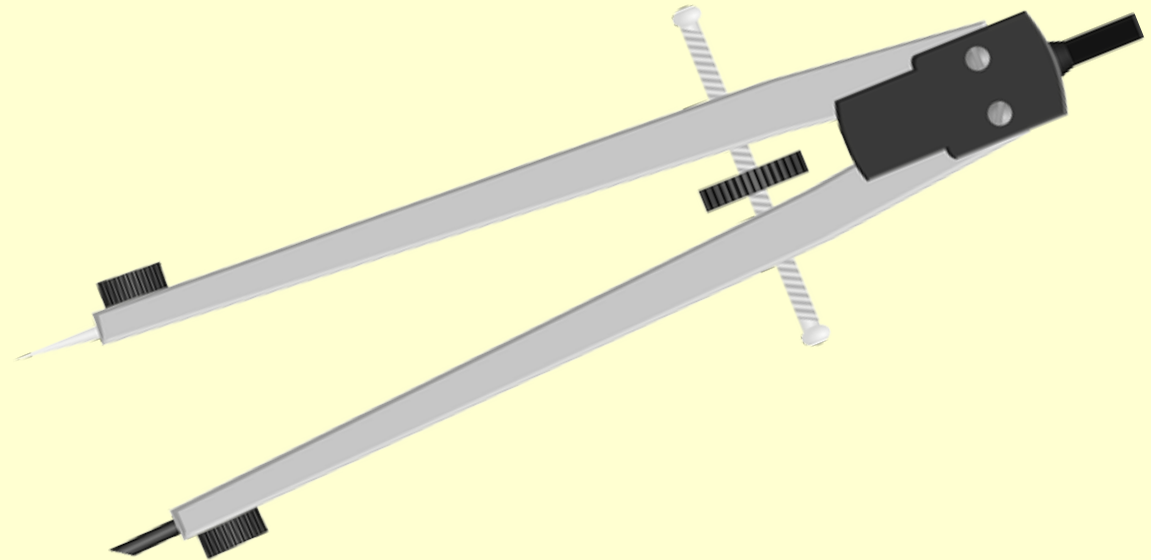
For this paper you must have:

- mathematical instruments

Used for:

- Drawing circles
- Drawing arcs

COMPASS





Materials

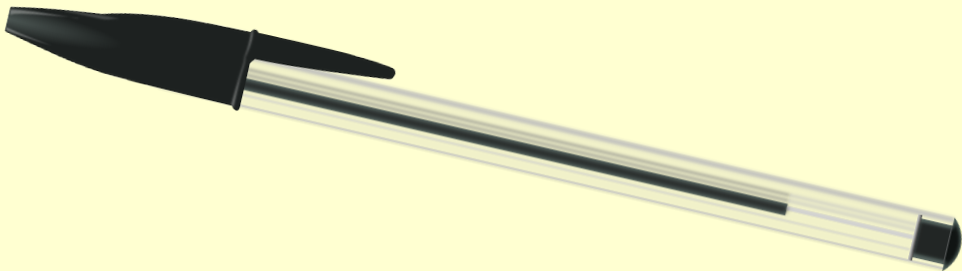
For this paper you must have:

- mathematical instruments

PEN

Used for:

- writing



PENCIL & ERASER

Used for:

- Drawing/editing diagrams
- Drawing/editing graphs





Materials

For this paper you must have:

**TRACING
PAPER**

Used for:

- Tracing shapes/diagrams

YOU CAN ASK FOR THIS

