



Helping to improve your Maths grade



Assessment

Paper 1: non-calculator	Paper 2: calculator	Paper 3: calculator
Content <ul style="list-style-type: none">Content from any part of the specification may be assessed	Content <ul style="list-style-type: none">Content from any part of the specification may be assessed	Content <ul style="list-style-type: none">Content from any part of the specification may be assessed
Assessment <ul style="list-style-type: none">1 hour 30 minuteswritten exam80 marks$33\frac{1}{3}\%$ of GCSE	Assessment <ul style="list-style-type: none">1 hour 30 minuteswritten exam80 marks$33\frac{1}{3}\%$ of GCSE	Assessment <ul style="list-style-type: none">1 hour 30 minuteswritten exam80 marks$33\frac{1}{3}\%$ of GCSE

- Students will be required to answer all questions on all papers
- The assessment structure will be the same for both foundation and higher tiers

Foundation Tier
Higher Tier

Grades 1 to 5
Grades 4 to 9

Improving my Maths grade

St LUKES



- To ‘improve’, you must know what topics you need to study (learn, revise/revisit, practice).
- Therefore... use the QLA’s (Question Level Analyses) that they are given by their Maths teacher (every month)....

Past paper practice

At the end of **every month** all of Y11 sit a past paper. These take place in the hall (Mastery session and Period 1 lesson). The first one was Wed September 25th and there is one next Wednesday. They will sit three full 80 mark papers in the Main hall in full mock conditions at the end of the Autumn term (November) and the Spring term (March).

11xy5 (LCO) June 2019 Paper 3F sat 26th/27th January

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	%
Rounding (100)	Multiple of 8	Convert km to m	Powers of 3	Convert % to fraction	Percentage of an amount	Calculations from a table	Fraction of an amount	Collect like terms	Simplifying fractions	Money calculations	Ratio to a fraction	Does the number appear in a sequence	Using a calculator	Substitution into a formula	Perimeter of 2d shapes	Estimate the height	Mode and total from a table	Changing the subject of the formula	Angles in squares and triangles	Currency conversions	Cost of journey convert litres to gallons	Ratio and proportion problem solving	Venn diagram	Compound interest	Frequency Polygons	Error spotting graphs	Angles in a polygon	Surface area of cylinder	Simultaneous equations		
N	N	N	N	N	N	HD	N	A	N	N	N	A	N	A	SSM	SSM	HD	A	SSM	N	SSM	N	HD	N	HD	HD	SSM	SSM	A		
1	1	1	1	1	2	2	3	2	3	4	2	2	2	4	3	2	3	2	2	3	4	5	5	3	3	2	4	5	3	80	
1	1	1	0	1	2	0	3	2	3	3	0	1	2	4	2	2	2	2	1	3	1	1	1	0	2	1	1	1	0	44	55%
1	1	1	0	1	2	2	3	2	3	2	2	0	2	2	0	0	2	0	0	0	0	0	4	0	0	1	0	0	0	31	39%
1	1	0	0	1	2	2	1	2	1	3	2	2	2	1	3	2	2	0	1	0	1	1	3	0	0	2	0	1	0	37	46%
1	1	1	0	1	2	2	3	1	3	3	2	2	2	2	0	0	2	0	1	3	4	2	5	1	0	1	4	0	0	49	61%
0	1	0	0	1	2	2	3	2	3	4	2	2	2	4	3	0	2	0	0	3	0	2	5	0	0	1	1	1	0	46	58%
1	1	1	0	1	2	2	3	2	3	4	2	2	2	4	3	0	2	0	0	3	1	0	3	0	2	2	0	0	0	46	58%
1	1	0	1	1	2	2	3	2	1	3	2	1	2	4	3	2	1	1	2	2	0	5	5	1	0	1	0	0	0	49	61%
1	1	1	0	1	2	0	0	2	3	3	2	1	2	2	1	0	1	2	1	0	1	0	4	0	0	1	0	0	3	35	44%
1	1	1	0	1	2	2	3	2	3	2	2	2	1	4	0	0	2	2	2	1	0	4	5	1	0	1	1	1	3	50	63%
1	1	1	0	1	2	2	3	2	1	4	0	1	2	2	3	0	3	1	1	0	0	5	0	2	2	0	0	0	40	50%	
1	1	1	1	0	1	2	2	3	2	3	4	2	1	2	4	3	0	2	1	1	3	2	2	5	0	2	1	2	0	53	66%
1	1	1	1	1	2	2	3	2	2	3	2	2	2	4	3	2	3	0	0	1	4	5	5	0	0	1	0	0	0	53	66%
1	1	1	0	1	2	2	3	2	3	0	2	2	2	4	3	0	3	1	0	3	1	0	5	0	0	1	0	1	0	44	55%
1	1	0	0	1	2	2	3	2	3	3	2	2	2	2	3	0	3	0	1	2	3	5	3	1	0	2	0	1	0	50	63%
1	1	1	0	1	2	2	2	2	3	3	2	2	2	4	1	0	2	2	1	0	1	2	5	0	0	1	1	1	0	45	56%
1	1	1	0	0	0	2	3	1	2	3	0	1	2	4	2	0	0	0	2	1	0	0	3	0	0	1	0	0	0	29	36%
1	1	0	0	1	2	2	3	2	3	3	2	2	2	4	3	1	3	2	2	3	1	3	5	0	1	2	0	1	0	55	69%
1	0	0	0	1	2	2	3	2	2	3	0	2	2	4	3	0	2	0	2	3	2	2	5	0	0	2	4	0	0	49	61%
1	1	1	0	1	2	0	3	2	3	3	2	1	2	4	3	0	2	2	1	1	1	1	5	1	0	0	1	0	3	47	59%
1	1	0	0	1	2	0	0	2	2	4	2	0	2	4	1	0	3	2	1	3	1	0	3	1	0	2	0	1	0	39	49%
1	1	1	1	1	2	2	3	1	2	3	2	2	2	4	3	0	3	2	2	3	0	2	5	1	0	1	1	0	0	51	64%
1	1	1	1	1	2	2	3	2	3	4	2	2	2	4	3	2	3	2	2	3	4	5	5	1	2	2	4	2	3	74	

21	21	14	3	21	42	36	57	40	53	65	36	33	43	75	47	9	48	22	22	40	26	37	93	8	7	28	15	12	9
95%	95%	64%	14%	95%	95%	82%	86%	91%	80%	74%	82%	75%	98%	85%	71%	20%	73%	50%	50%	61%	30%	34%	85%	12%	11%	64%	17%	11%	14%
		14	1			21	24	25	19	18	20	17		22	16	2	15	3	4	12	5	6	23	7	8	13	9	10	11
1.00	0.94	0.65	0.18	0.94	1.88	1.65	2.59	1.82	2.35	2.94	1.65	1.53	1.94	3.65	2.29	0.29	2.24	1.18	1.12	1.82	1.18	1.82	4.41	0.41	0.29	1.29	0.53	0.53	0.53
0.99	0.96	0.83	0.22	0.96	1.95	1.53	2.83	1.84	2.66	3.21	1.80	1.76	1.80	3.79	2.34	0.99	2.34	0.86	1.34	2.58	2.45	3.69	3.83	1.01	1.14	0.77	0.72	0.89	0.98

Where do I go to improve my Maths?

Sparx – independent learning (using the U-codes)

corbettmaths.com (Worksheets, solutions and videos)

drfrostmaths.com (tailored questioning to ability).

onmaths.com (practice exam papers – live marked 😊)

online.justmaths.co.uk

Login: LukesStudent

Password: Lukes

More...worksheets, solutions and videos!! 😊😊

Where do I go to improve my Maths?

Sparx – index

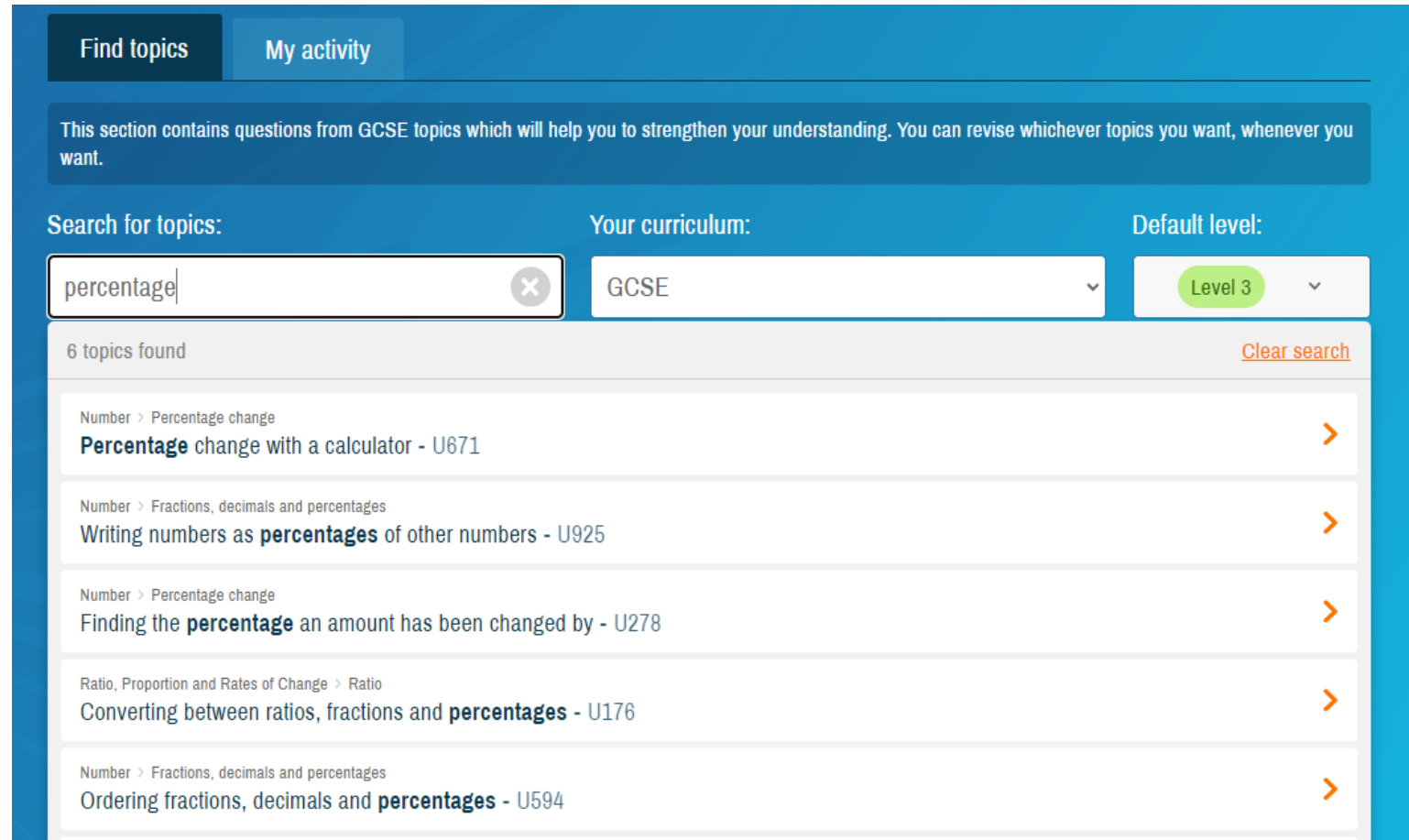
The screenshot shows the Sparx Homework interface. At the top, the logo 'sparx Homework' is visible. On the left, there is a vertical sidebar menu with the following items: 'Compulsory' (None available), 'XP Boost' (None available), 'Target' (None available), 'Sparx Practice' (highlighted in dark blue), and 'Independent Learning' (highlighted in light blue). On the right side of the main content area, there is a notification box that says 'Before you start this system. This has been updated.' and a button with a play icon and the text 'Sparx'.

Here it is!



Where do I go to improve my Maths?

Sparx – independent learning



The screenshot shows the Sparx Maths interface. At the top, there are two tabs: 'Find topics' (active) and 'My activity'. Below the tabs is a blue banner with the text: 'This section contains questions from GCSE topics which will help you to strengthen your understanding. You can revise whichever topics you want, whenever you want.'

Below the banner are three search filters:

- Search for topics:** A text input field containing 'percentage' with a clear button (X).
- Your curriculum:** A dropdown menu set to 'GCSE'.
- Default level:** A dropdown menu set to 'Level 3'.

Below the filters, it says '6 topics found' and has a 'Clear search' link. The results are listed as follows:

- Number > Percentage change
Percentage change with a calculator - U671
- Number > Fractions, decimals and percentages
Writing numbers as **percentages** of other numbers - U925
- Number > Percentage change
Finding the **percentage** an amount has been changed by - U278
- Ratio, Proportion and Rates of Change > Ratio
Converting between ratios, fractions and **percentages** - U176
- Number > Fractions, decimals and percentages
Ordering fractions, decimals and **percentages** - U594

Where do I go to improve my Maths?

[corbettmaths.com](https://www.corbettmaths.com) (Worksheets, solutions and videos)

The screenshot shows the homepage of Corbettmaths. At the top left is a logo consisting of a black circle with a white play button symbol inside. To its right is the text 'Corbettmaths'. Below the logo and name is a navigation menu with the following items: 'Welcome', 'Videos and Worksheets', 'Primary', '5-a-day' (with a dropdown arrow), 'More' (with a dropdown arrow), 'Revision Cards', and 'Books'. The main content area on the left features the word 'Welcome' in a light grey font, followed by '5-a-day' in large orange letters, 'Videos' in large purple letters, and 'Worksheets' in large orange letters. Below 'Worksheets' is a small image of several revision cards with mathematical problems and solutions. To the right of this image is the text 'Corbettmaths Revision Cards' and 'Designed for the new 9-1 GCSE', followed by 'GCSE Higher or GCSE Foundation'. At the bottom left, the text 'Practice Papers' is written in large purple letters. On the right side of the page, there are three blue rectangular boxes. The top box is titled 'GCSE Revision Cards' and contains the text 'Available for GCSE Higher or Foundation Tier' above an image of a pink and green card set. The middle box is titled '5-a-day Workbooks' and contains an image of a fan of colorful workbooks. The bottom box is titled 'Primary Study Cards' and is currently empty.

Corbettmaths

Welcome Videos and Worksheets Primary 5-a-day More Revision Cards Books

Welcome

5-a-day

Videos

Worksheets

Corbettmaths Revision Cards
Designed for the new 9-1 GCSE
GCSE Higher or
GCSE Foundation

Practice Papers

GCSE Revision Cards
Available for GCSE Higher or Foundation Tier

5-a-day Workbooks

Primary Study Cards

Where do I go to improve my Maths?

[corbettmaths.com](https://www.corbettmaths.com) (Worksheets, solutions and videos)



Corbettmaths

Ctrl + F

Welcome Videos and Worksheets Primary 5-a-day \vee More \vee

percentage

1/13



Videos and Worksheets

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](#)

GCSE Revision Cards

Available for GCSE Higher or Foundation Tier



5-a-day Workbooks



Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

percentage

1/13

^ v x

Perpendicular lines [Video 232](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: change [Video 233](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: of an amount (non-calc) [Video 234](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: of an amount (calc) [Video 235](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: compound interest [Video 236](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: simple interest [Video 236a](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: expressing as [Video 237](#) [Practice Questions](#) [Textbook Exercise](#)

Percentages: increasing\decreasing [Video 238](#) [Practice Questions](#) [Textbook Exercise](#)

Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)



Corbettmaths

Welcome Videos and Worksheets Primary 5-a-day \vee More \vee Revision Cards Books

Compound Interest Video

Compound Interest - Corbettmaths

Emily invests £8000 in the bank for 4 years. It earns compound interest of 3% per year. $\times 1.03$

Calculate the total amount of money that Emily has in the bank after 4 years.

8000×1.03^4

9004.07048

initial \times multiplier ^{time}

Watch on YouTube

GCSE Revision Cards

Available for GCSE Higher or Foundation Tier



5-a-day Workbooks



Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

Name: _____

Exam Style Questions

Compound Interest



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance



1. Sebastian leaves £3000 in the bank for two years.
It earns compound interest of 2% per year.

Calculate the total amount Sebastian has in the bank at the end of the two years.

£.....
(2)




2. Fiona leaves £1600 in the bank for four years.
It earns compound interest of 4% each year.

Calculate the total amount Fiona has in the bank at the end of the four years.

£.....
(3)


Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

1.  Sebastian leaves £3000 in the bank for two years.
It earns compound interest of 2% per year.


Calculate the total amount Sebastian has in the bank at the end of the two years.

£.....
(2)

2.  Fiona leaves £1600 in the bank for four years.
It earns compound interest of 4% each year.

Calculate the total amount Fiona has in the bank at the end of the four years.


£.....
(3)

1.  Sebastian leaves £3000 in the bank for two years.
It earns compound interest of 2% per year.

Calculate the total amount Sebastian has in the bank at the end of the two years.

$$\begin{array}{l} \text{1st year} \\ 2\% \text{ of } 3000 = 60 \\ \pounds 3060 \end{array} \qquad \begin{array}{l} \text{2nd year} \\ 2\% \text{ of } 3060 = 61.20 \\ \pounds 3121.20 \end{array}$$

£ 3121.20
(2)

2.  Fiona leaves £1600 in the bank for four years.
It earns compound interest of 4% each year.

Calculate the total amount Fiona has in the bank at the end of the four years.

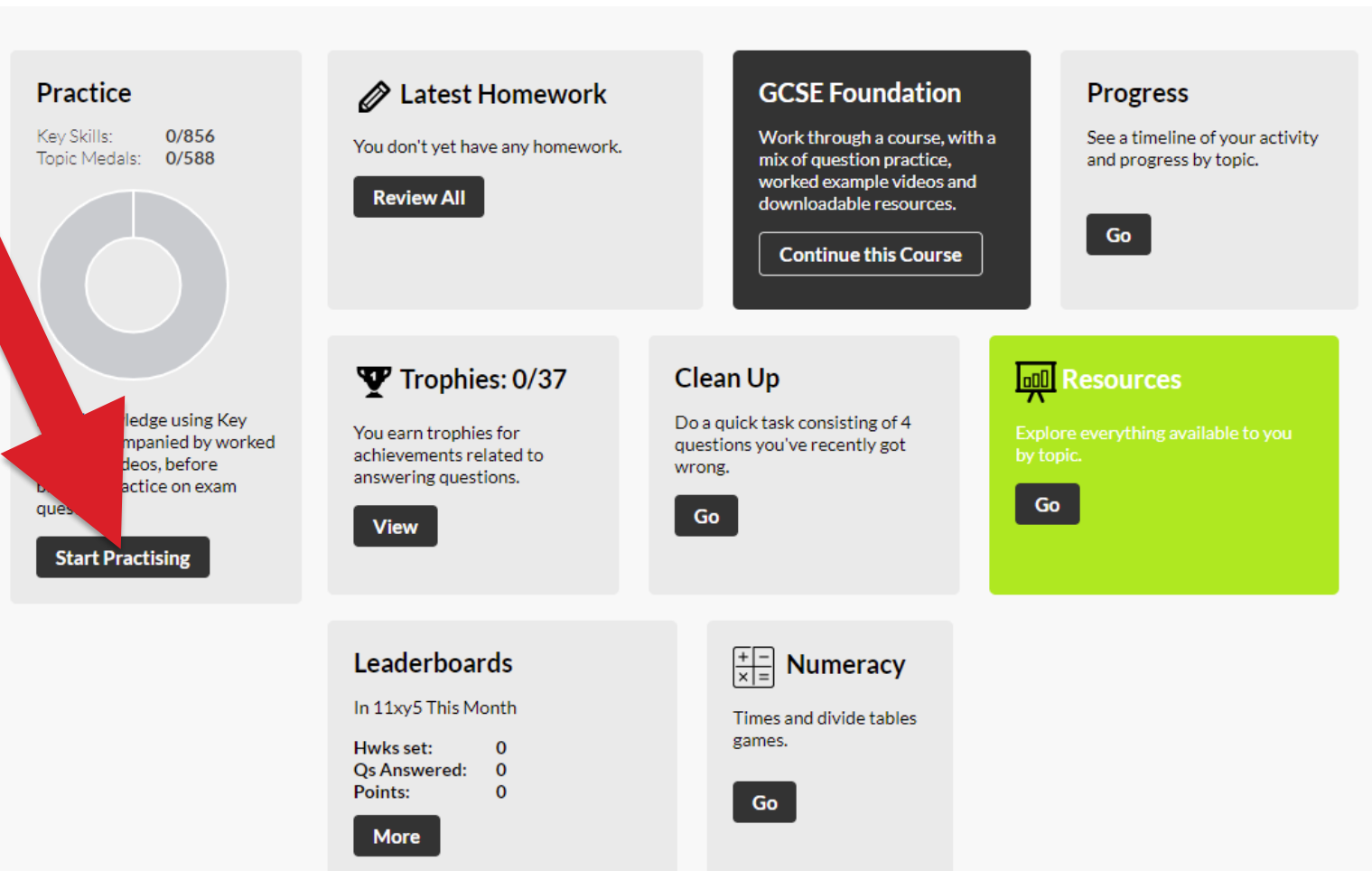
$$1600 \times 1.04^4 = \pounds 1871.77$$

£ 1871.77
(3)

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[drfrostmaths.com](https://www.dr-frost-maths.com)

(tailored questioning to ability).



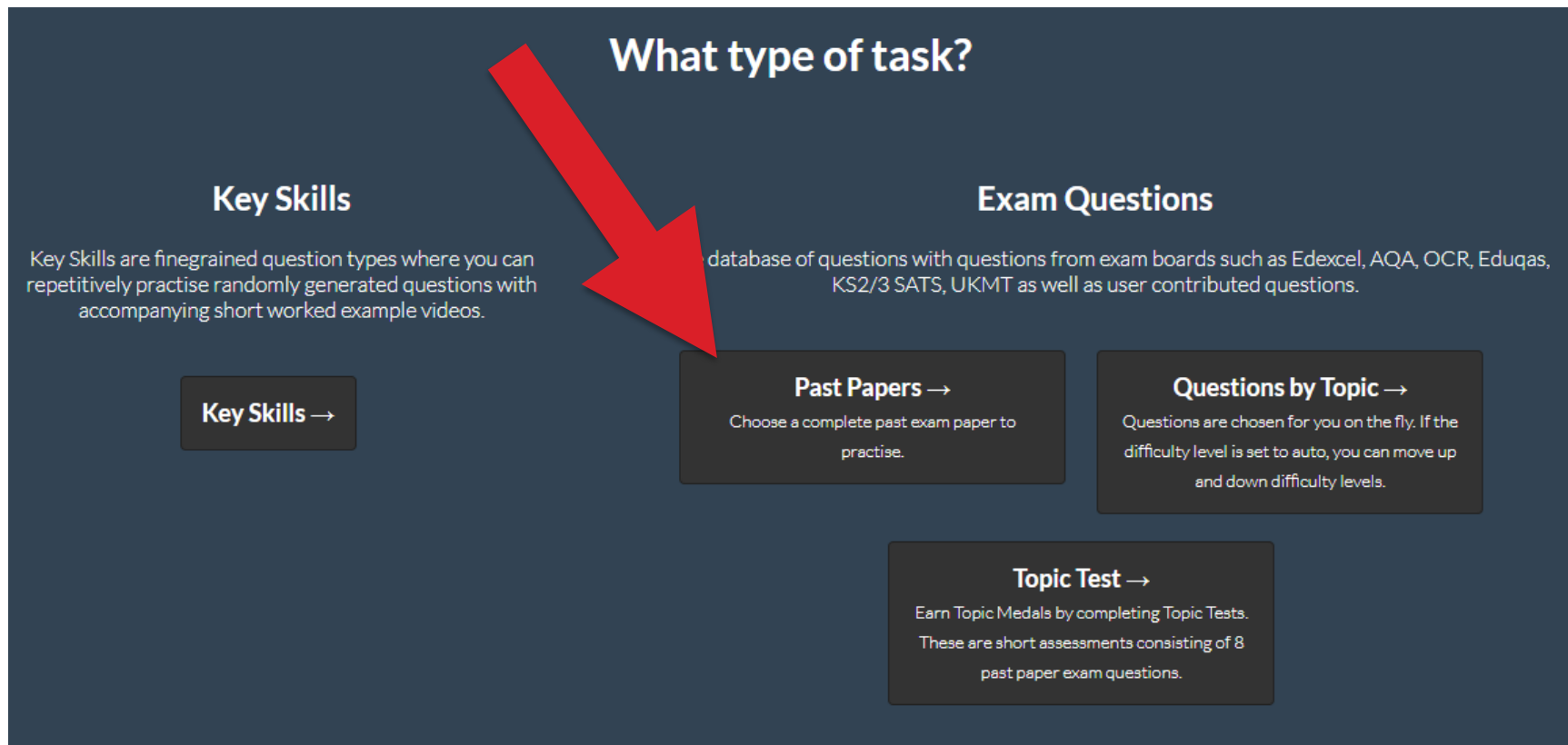
The screenshot shows a user dashboard with several interactive cards. A large red arrow points from the top left towards the 'Start Practising' button in the 'Practice' card.

- Practice**
Key Skills: 0/856
Topic Medals: 0/588
A donut chart is partially visible.
Text: "...ledge using Key ... mpanied by worked ... deos, before ... ctice on exam ... ques ..."
Start Practising
- Latest Homework**
You don't yet have any homework.
Review All
- GCSE Foundation**
Work through a course, with a mix of question practice, worked example videos and downloadable resources.
Continue this Course
- Progress**
See a timeline of your activity and progress by topic.
Go
- Trophies: 0/37**
You earn trophies for achievements related to answering questions.
View
- Clean Up**
Do a quick task consisting of 4 questions you've recently got wrong.
Go
- Resources** (highlighted in green)
Explore everything available to you by topic.
Go
- Leaderboards**
In 11xy5 This Month
Hwks set: 0
Qs Answered: 0
Points: 0
More
- Numeracy**
Times and divide tables games.
Go

Where do I go to improve my Maths?

[drfrostmaths.com](https://www.dr-frost-maths.com)

(tailored questioning to ability).



Where do I go to improve my Maths?

drfrostmaths.com

(tailored questioning to ability).

Past Papers

Past papers from major exam boards such as Edexcel, OCR, AQA, the DfE Skills Testing Agency and the UK Mathematics Trust.



Pearson Edexcel

573 worksheets

GCSE, IGCSE and A Level papers.



OCR

135 worksheets

GCSE and A Level papers.



AQA

76 worksheets

GCSE papers and Further Maths Level 2 Certificate papers.



Mathematical Association

21 worksheets

Primary Maths Challenges.



Oxford Mathematical Institute

18 worksheets

Mathematical Aptitude Test (MAT) papers, used by Oxford and Imperial for university admissions.



WJEC

5 worksheets

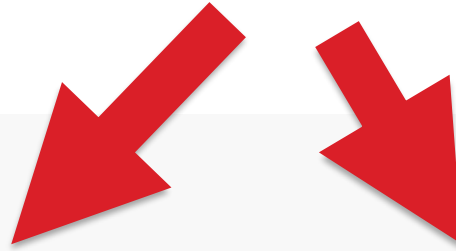
GCSE papers.



Where do I go to improve my Maths?



[drfrostmaths.com](https://www.dr-frost-maths.com)

(tailored questioning to ability).



Pearson Edexcel

GCSE, IGCSE and A Level papers.

 A Level (Legacy) 196 worksheets For the old pre 2017 qualification.	 GCSE 9-1 Foundation 30 worksheets For the new 9-1 system.	 GCSE 9-1 Higher 42 worksheets For the new 9-1 system.	 GCSE Foundation (Legacy) 53 worksheets For the old pre 9-1 system.
 GCSE Intermediate (Legacy) 14 worksheets For the old pre 9-1 system.	 GCSE Linked Pair Higher 14 worksheets	 IGCSE 9-1 Higher 11 worksheets For the new 9-1 system.	 IGCSE Foundation (Legacy) 8 worksheets For the old pre 9-1 system.



Where do I go to improve my Maths?

onmaths.com (practice exam papers – live marked 😊)



SIGN IN

SIGN UP


Predicted Papers

Mini Predicted Papers

Topics

Demon Questions

Mini Mocks


Start
understanding
GCSE maths

All

Predictions

Our Papers

What We Offer

Ultimate

Teachers

2021 November Predicted Papers

Foundation ▾ Edexcel ▾ Paper 1 ▾

Edexcel GCSE Prediction

Mathematics



Where do I go to improve my Maths?

[onmaths.com](https://www.onmaths.com) (practice exam papers – live marked 😊)

Raise your grade

Prediction



Higher



Edexcel



Prediction

Prediction (45 min)

Topics

Demon Questions

Mini Mocks

EDEXCEL

Nov 2021



Where do I go to improve my Maths?

[onmaths.com](https://www.onmaths.com) (practice exam papers – live marked 😊)

Raise your grade

Topics



Higher



Number



Accuracy: Bounds From Calculations

Grade 1 2 3 4 5 6 7 8 9

Accuracy: Estimation

Grade 1 2 3 4 5 6 7 8 9

Accuracy: Finding Bounds

Grade 1 2 3 4 5 6 7 8 9

Accuracy: Iteration



Where do I go to improve my Maths?

onmaths.com (practice exam papers – live marked 😊)

Mini Mock

Mini-Mock 1 Foundation Non-Calculator

20 Marks

Foundation Tier

Advice

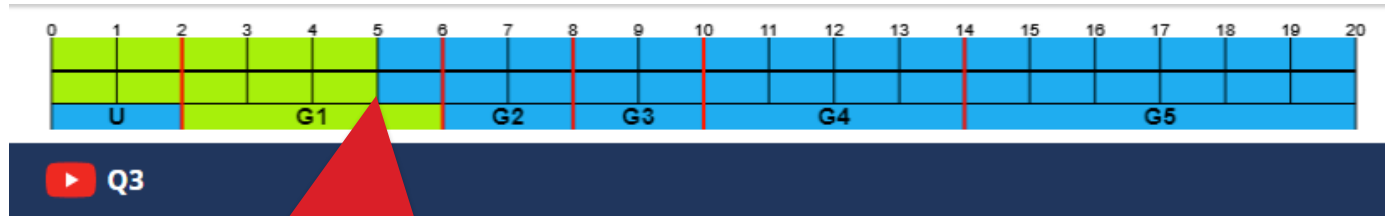
- Click 'Mark' to mark your answer, once a question is marked, it cannot be edited.
- The questions must be done in order, from Q1 onwards.
- Each question will change subtly every time you take this test.
- Your mark for the paper will only save if you are logged in AND you fully complete the paper.

Start Paper



Where do I go to improve my Maths?

[onmaths.com](https://www.onmaths.com) (practice exam papers – live marked 😊)



▶ Q3

Write these numbers in ascending order:

(a) $\frac{1}{5}$

(b) $\frac{7}{10}$

(c) $\frac{17}{20}$

Select Order ▾

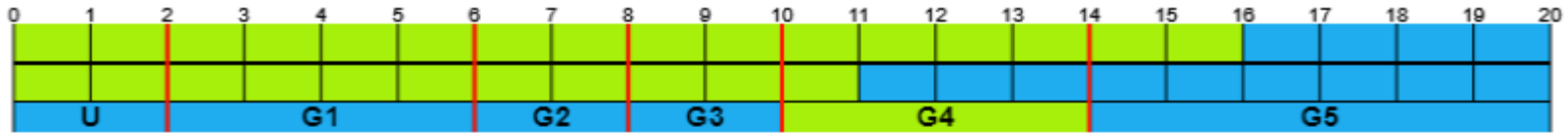
(2)

Mark



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 Q7

The points $(8, 28)$ and $(w, 37)$ form a line segment.

The gradient of the line segment is 3.

Find the value of w .

$w =$
(3)

Mark



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More...worksheets, solutions and videos!! 😊😊



Where do I go to improve my Maths?

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[R.A.G.](#)

[Exam Solutions](#)

[Key Skills Challenges](#)

[Contact Us](#)

[- Log Out -](#)



We like to keep things simple so all you have to do is print out the worksheets (link under the video) to work on alongside watching the main videos or if you're looking for a quick reminder watch the "quick hint" videos.

We suggest that the topics are followed in this order ... simple, now get started!

01
Two-Way Tables

02
Frequency Trees

03
Rounding & Error Intervals

04
Estimation

05
Use of Calculator

06
Product of Prime Factors

07
HCF & LCM

08
Real Life Multiples

09
Fractions 1

10
Fractions 2

11
Ratio 1

12
Ratio 2

13
Direct Proportion

14
Proportion – Best Value

15
Proportions – Recipes

16
Proportion – Exchange Rates

17
Inverse Proportion

18
Percentages 1

19
Percentages 2

20
Interest & Growth

21
Depreciation & Decay

22
Reverse Percentages

23
Index Laws

24
Expand & Simplify

25
Sequences

26
Inequalities

27
Solving Equations

28
Forming & Solving 1

29
Forming & Solving 2

30
Factorising 1



Where do I go to improve my Maths?

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01 Two-Way Tables

Video Lesson



Worksheet button

Solutions are here

Quick Hints

Reading and Understanding

Completing and Using

Creating

With a Twist



Where do I go to improve my Maths?

online.justmaths.co.uk

JustMaths

The two-way table gives some information about how 100 children travelled to school one day.

	Walk	Car	Other	Total
Boy	15		14	54
Girl		8	16	
Total	37			100

(a) Complete the two-way table.

One of the children is picked at random.

(b) Write down the probability that this child walked to school that day.

.....



Where do I go to improve my Maths?

online.justmaths.co.uk

JustMaths

The two-way table gives some information about how 100 children travelled to school one day.

$15 + 14 = 29$ $54 - 29 = 25$

	Walk	Car	Other	Total
Boy	15	25	14	54
Girl	22	8	16	46
Total	37	33	30	100

$37 - 15$ $100 - 54$

$25 + 8$ $14 + 16$

(a) Complete the two-way table.

One of the ¹⁰⁰children is picked at random.

(b) Write down the probability that this child walked to school that day.

$$\frac{37}{100}$$



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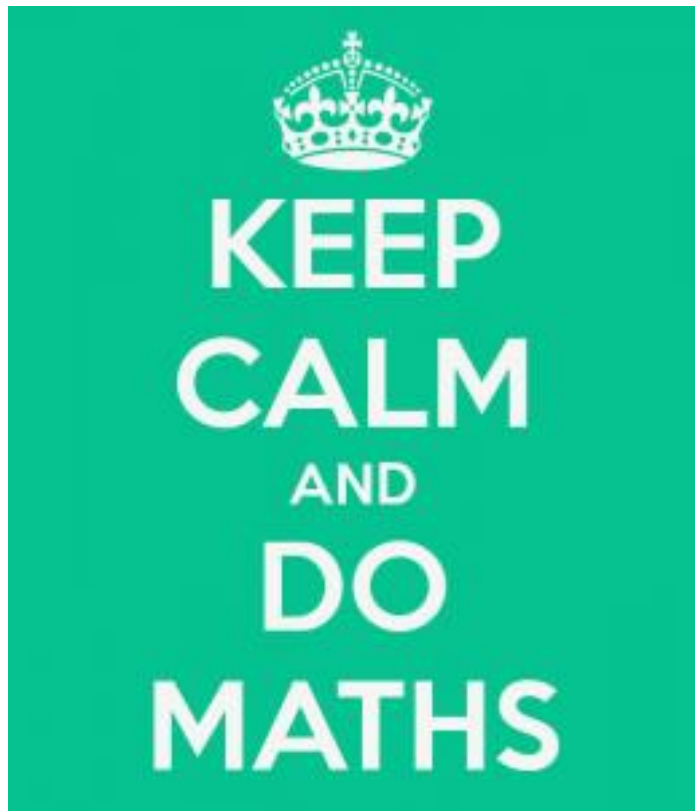
Password: Lukes

More...worksheets, solutions and videos!! 😊😊



Remember the best
way to revise
maths is “to do
maths”





Please contact your
Maths teacher
if you need anything.

Best wishes from the
Maths Team

