JustMaths Online

St LUKE'S

Helping to improve your Maths grade

sparx

dfm

Corbettmaths

GCSE Mathematics

St LUKE'S Church of England School

Assessment

Paper 1: non-calculator	Paper 2: calculator	Paper 3: calculator
Content • Content from any part of the specification may be assessed	**Content** • Content from any part of the specification may be assessed	**Content** • Content from any part of the specification may be assessed
Assessment • 1 hour 30 minutes • written exam • 80 marks • $33\frac{1}{3}$% of GCSE	**Assessment** • 1 hour 30 minutes • written exam • 80 marks • $33\frac{1}{3}$% of GCSE	**Assessment** • 1 hour 30 minutes • written exam • 80 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	Grades 1 to 5
Higher Tier	Grades 4 to 9

Improving my Maths grade

- 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

St LUKE'S Church of England School

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		
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	Esimtate 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	Total	%
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	0	5	0	2	2	0	0	0	40	50%
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	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	1	2	2	3	1	1	2	2	2	2	4	1	0	3	2	0	2	2	0	4	1	0	0	0	1	0	41	51%
1	1	0	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	
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		

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		

Practice Paper Set 1 - C (3F) - Dec 14th 2016

U = Understand this topic
R = Revise this topic
L = Learn this topic

My Strengths and Weaknesses

Paper 1

		Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22					
		Grade																											
		Topic	Rounding	Decimals to Fractions	Mutual Exclusivity	Types of Triangle	Types of Number	Time Calculations	Reading scales Metric and Imperi	Function Machines	Ratio in context	Percentage calculations	Ordering FDPs	Simplifying and Solving	Adding and Subtracting Fractions	Angle Facts	Speed Distance Time	Angles on parallel lines	Plotting quadratics	Percentage Calculations	Area of a circle	Reading Tables / Averages	Ratio and Proportion	Trigonometry	Total	Number	Algebra	Handling Data	Shape, Space & Measures
		Mark Available	1	1	1	1	4	3	5	5	5	4	2	5	4	3	4	4	6	3	5	5	7	2	80				
	Forename	Surname																											
Paper 1			1	1	1	1	4	2	5	5	3	0	1	5	0	3	2	3	0	0	0	1	0	2	40	42	63	15	67
Understand - Revise - Learn			U	U	U	U	U	R	U	U	R	L	R	U	L	U	R	R	L	L	L	R	L	U					

Write down the topics you understand: (U)

Write down the topics you need to revise: (R)

Write down the topics you need to learn: (L)

Practice Paper Set 1 - C (3F) - Dec 14th 2016

U = Understand this topic
R = Revise this topic
L = Learn this topic

My Strengths and Weaknesses

Paper 1

		Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22					
		Grade																											
		Topic	Rounding	Decimals to Fractions	Mutual Exclusivity	Types of Triangle	Types of Number	Time Calculations	Reading scales Metric and Imperi	Function Machines	Ratio in context	Percentage calculations	Ordering FDPs	Simplifying and Solving	Adding and Subtracting Fractions	Angle Facts	Speed Distance Time	Angles on parallel lines	Plotting quadratics	Percentage Calculations	Area of a circle	Reading Tables / Averages	Ratio and Proportion	Trigonometry	Total	Number	Algebra	Handling Data	Shape, Space & Measures
		Mark Available	1	1	1	1	4	3	5	5	5	4	2	5	4	3	4	4	6	3	5	5	7	2	80				
	Forename	Surname																											
Paper 1			1	1	1	1	4	2	5	5	3	0	1	5	0	3	2	3	0	0	0	1	0	2	40	42	63	15	67
Understand - Revise - Learn			U	U	U	U	U	R	U	U	R	L	R	U	L	U	R	R	L	L	L	R	L	U					

Write down the topics you understand: (U)

Write down the topics you need to revise: (R)

Write down the topics you need to learn: (L)

They understand these topics

Practice Paper Set 1 - C (3F) - Dec 14th 2016

U = Understand this topic
R = Revise this topic
L = Learn this topic

My Strengths and Weaknesses

	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	
	Metric conversions U388	Order U976	Solving equations U755	Directed number U742	Continuing sequences U530	Form and simplify expressions U337	Co-ordinates U789	Area of a rectangle U983	Error spotting +5 U735	Stem and leaf U200	Ratio U687	Two way tables U981	Surface are of a cube U929	Closer to 1 5/7 or 7/5? U704	Ratio to percentage U178	Money calculations %s U554	Simple space diagrams U104	Sharing money into a ratio U577	Ratio - recipe U721	Approximations U225	Standard form U264	Adding fractions U736	Product of primes U739	Form and simplify ratio U687 + U599	Angle facts U655	Area of a circle U950	Average from a table U312.	Forming and solving equations U599	Error spotting quadratic	Reverse percentages U286	Total
Mark Available	2	1	1	1	1	3	4	2	1	2	3	4	4	3	2	5	2	2	3	4	3	2	5	5	5	5	3	3	3	2	80
Mark Awarded	1	1	1	1	1	1	1	2	0	1	0	4	0	3	0	2	0	2	2	2	0	1	0	0	0	0	0	0	0	0	26
Revise / Learn	R	U	U	U	U	R	R	U	L	R	L	U	L	U	L	R	L	U	R	R	L	R	L	L	L	L	L	L	L	L	

Write down the topics you understand: (U)

Write down the topics you need to revise: (R)

Write down the topics you need to learn: (L)

A topic which needs attention!

U codes…

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

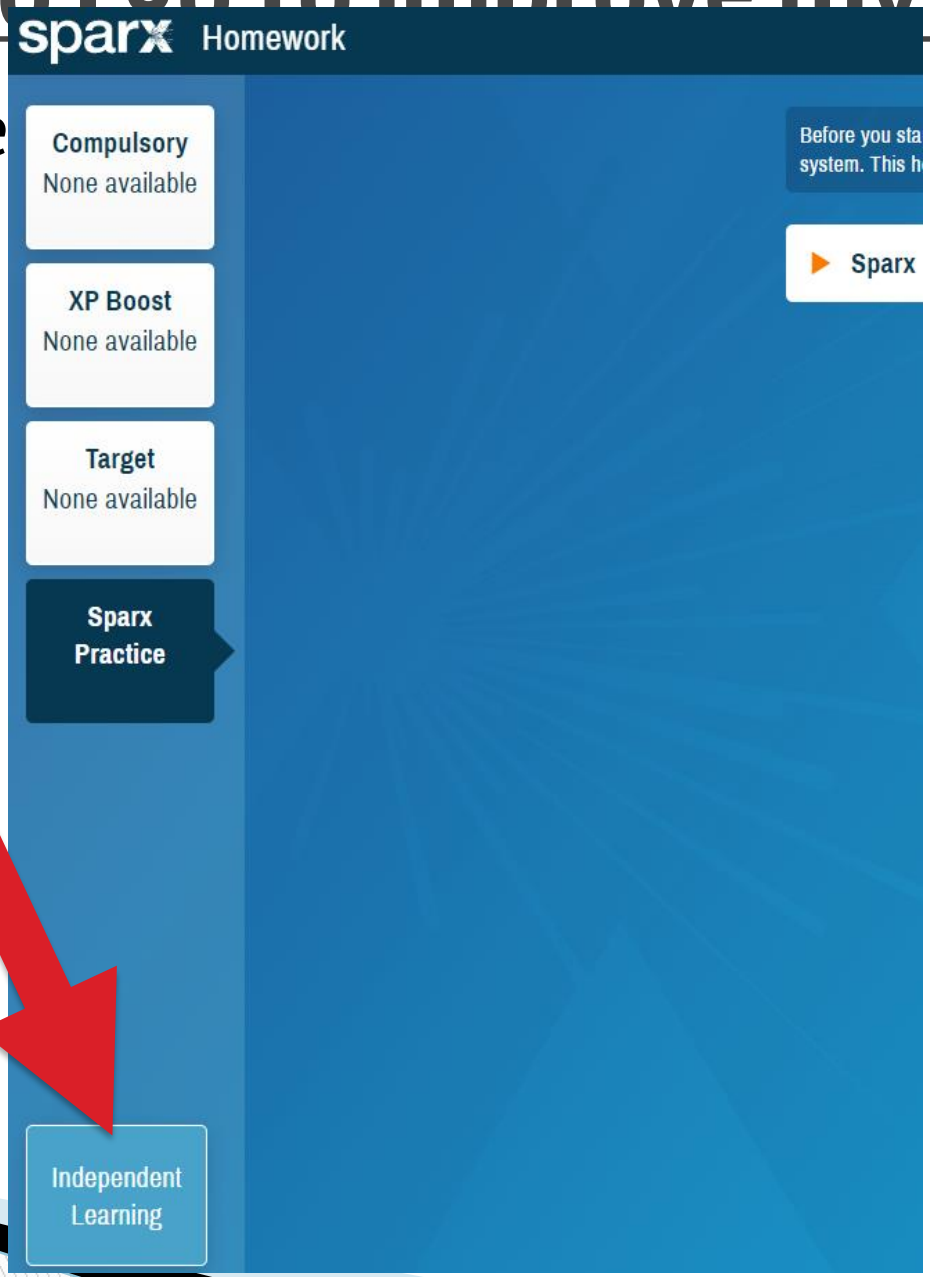
Password: Lukes

More…worksheets, solutions and videos!! ☺☺

Where do I go to improve my Maths?

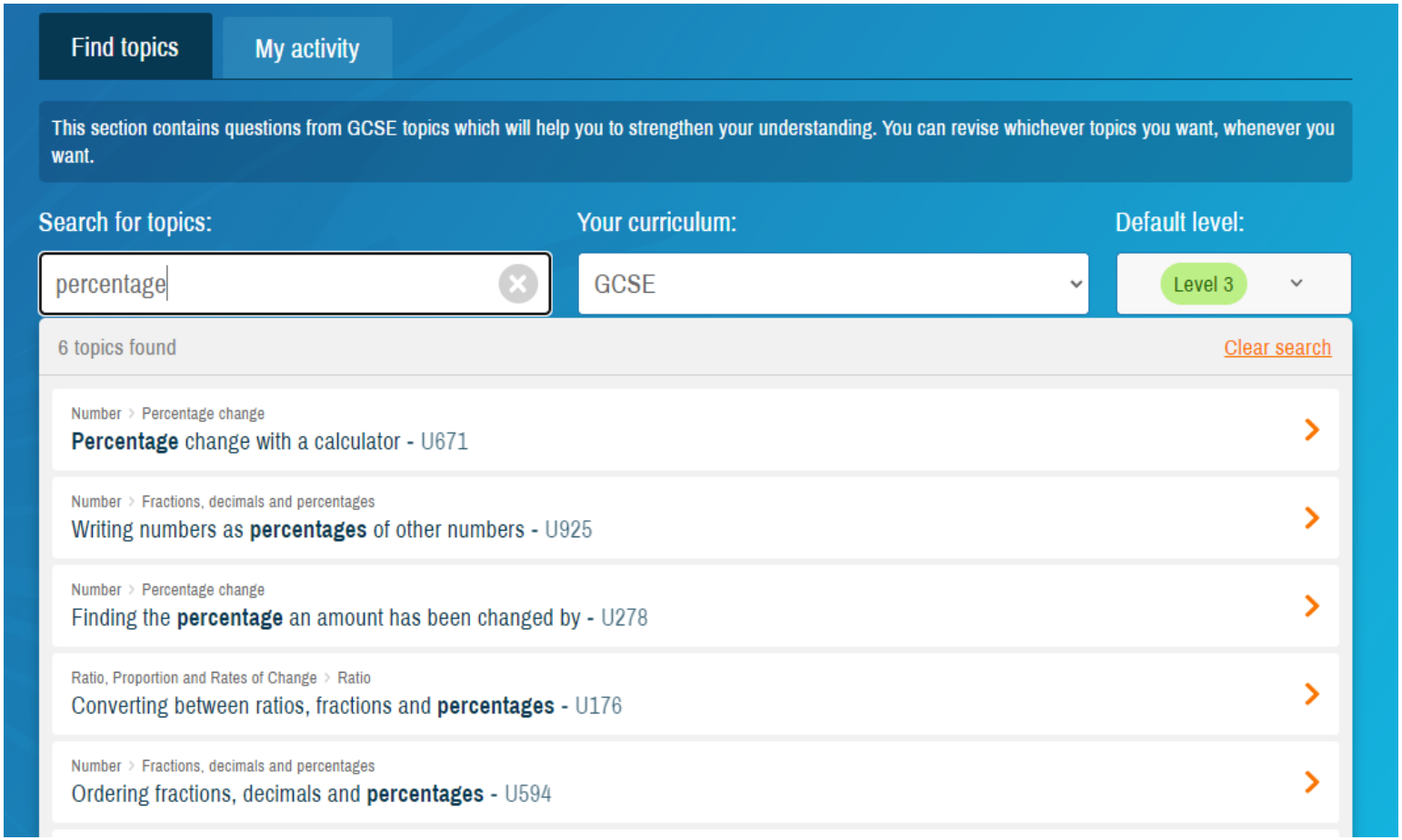
Sparx – inde

Here it is!



Where do I go to improve my Maths?

Sparx – independent learning



Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

Corbettmaths

Ctrl + F

percentage 1/13

Welcome | Videos and Worksheets | Primary | 5-a-day | More

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

5-a-day Workbooks

Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

percentage 1/13

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

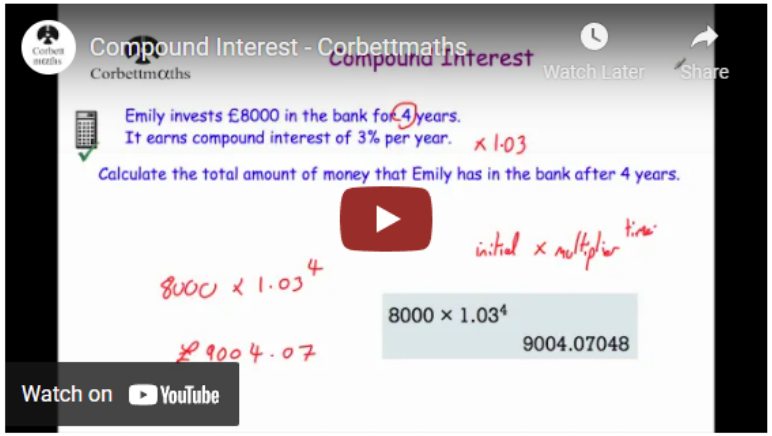
Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

Corbettmaths

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

Compound Interest Video



GCSE Revision Cards

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.

1st year
2% of 3000 = 60

£3060

2nd year
2% of 3060 = 61.20

£3121.20

£ 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.

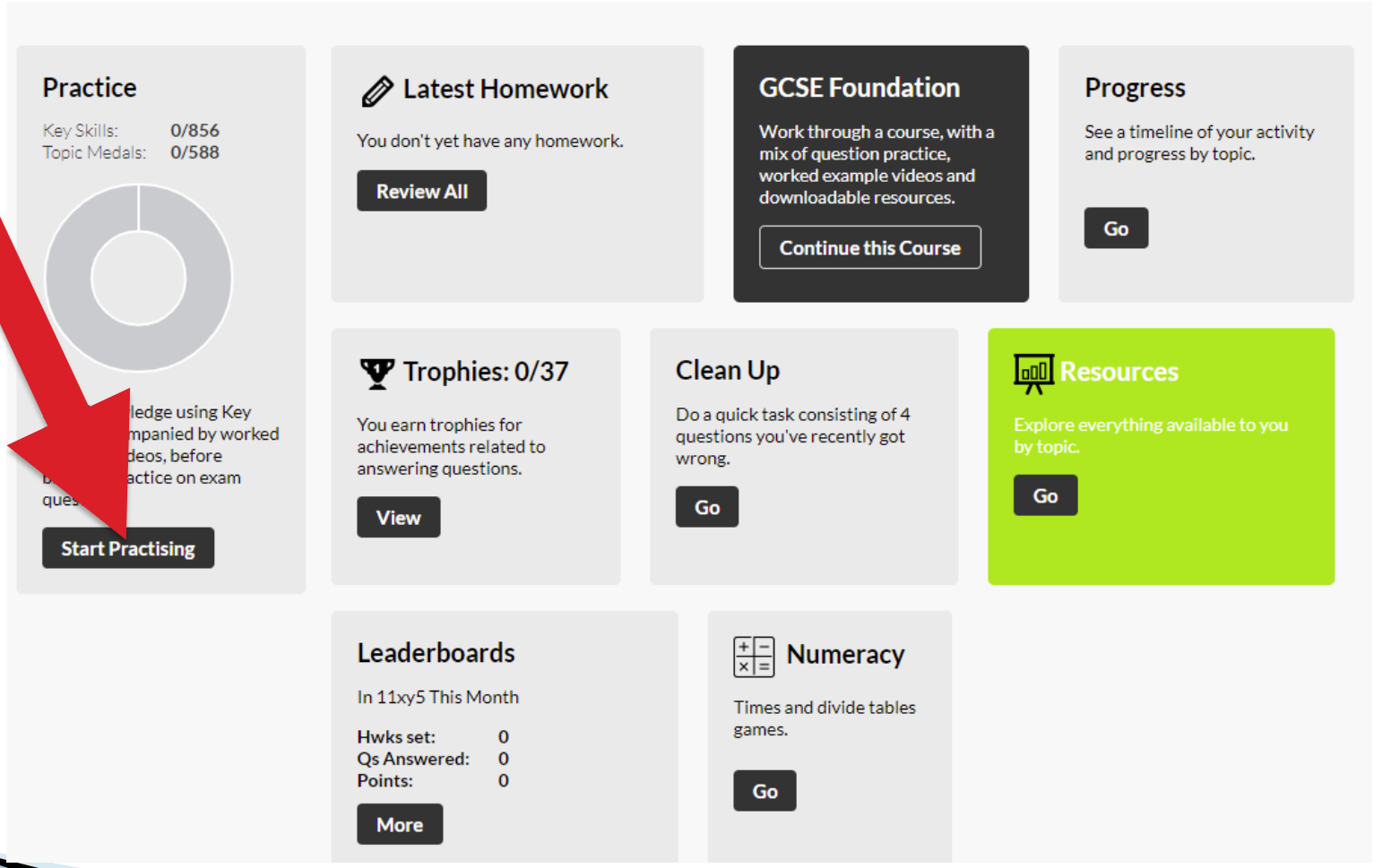
$1600 \times 1.04^4 = £1871.77$

£ 1871.77

(3)

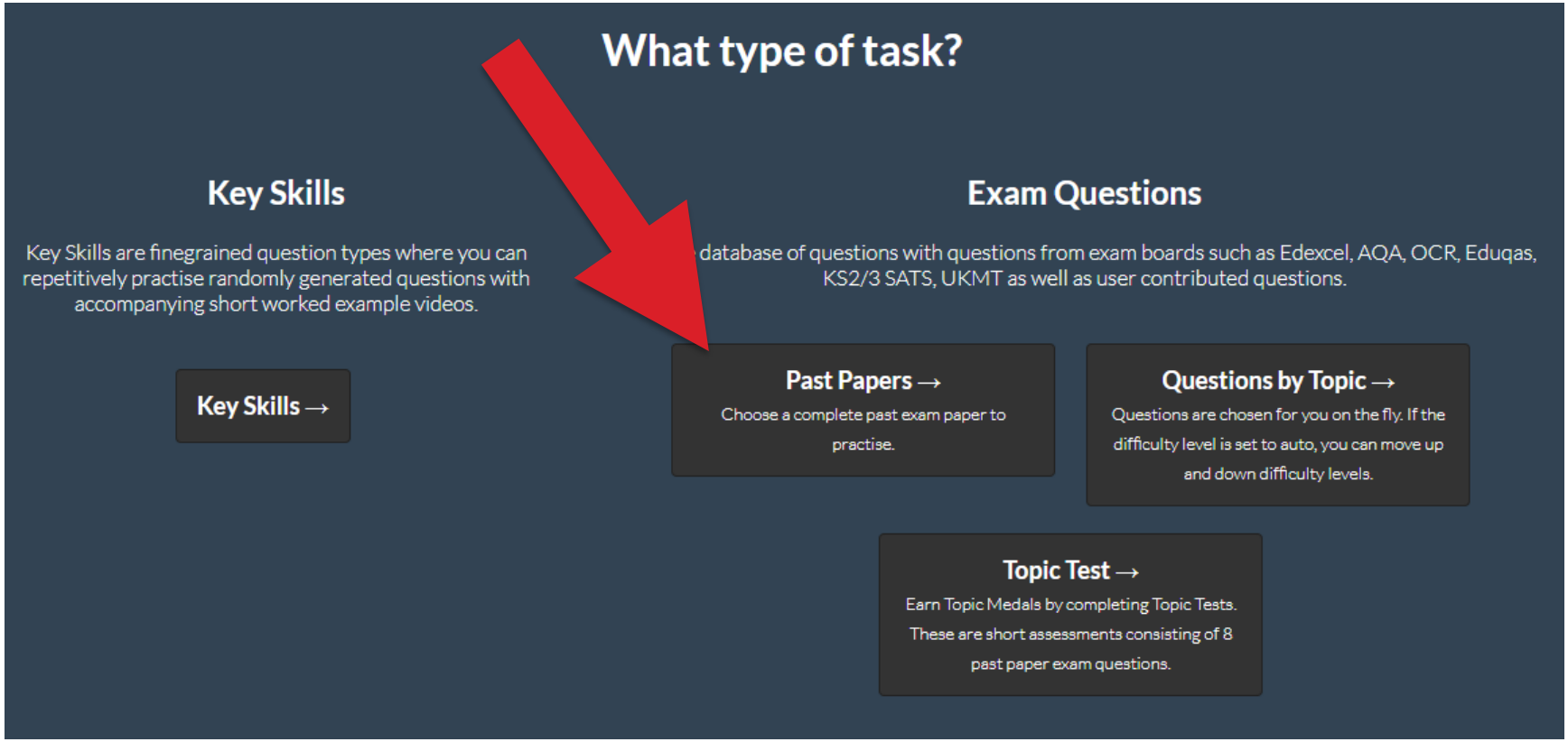
Where do I go to improve my Maths?

drfrostmaths.com (tailored questioning to ability).



Where do I go to improve my Maths?

drfrostmaths.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.

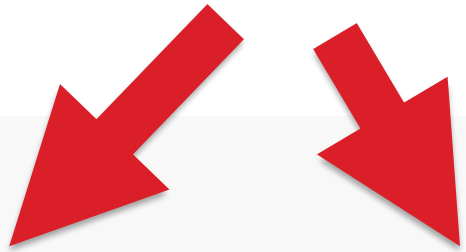
Mathematical Association
21 worksheets
Primary Maths Challenges.

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 (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.

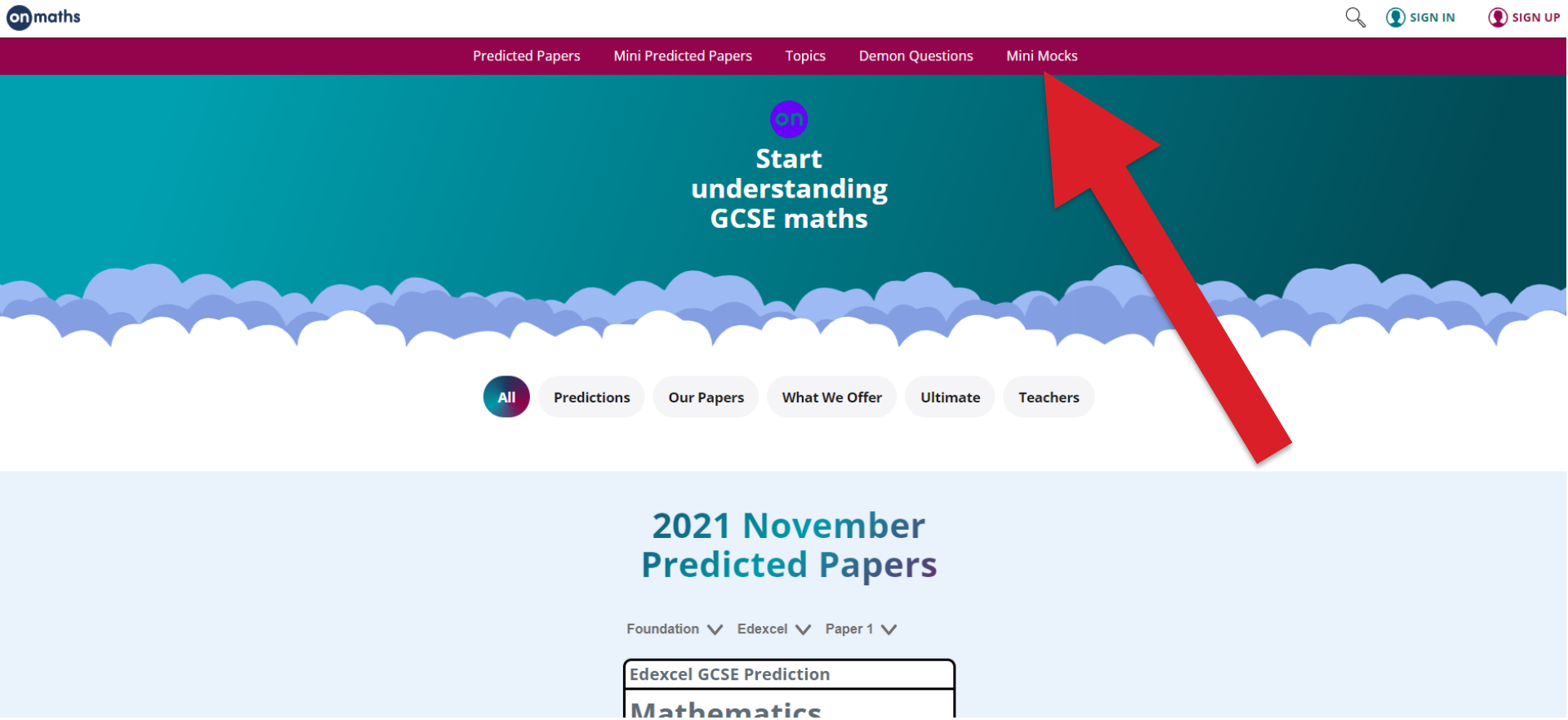
GCSE Linked Pair Higher
14 worksheets

IGCSE 9-1 Higher
11 worksheets
For the new 9-1 system.

IGCSE Foundation (Legacy)
8 worksheets
For the old pre 9-1 system.

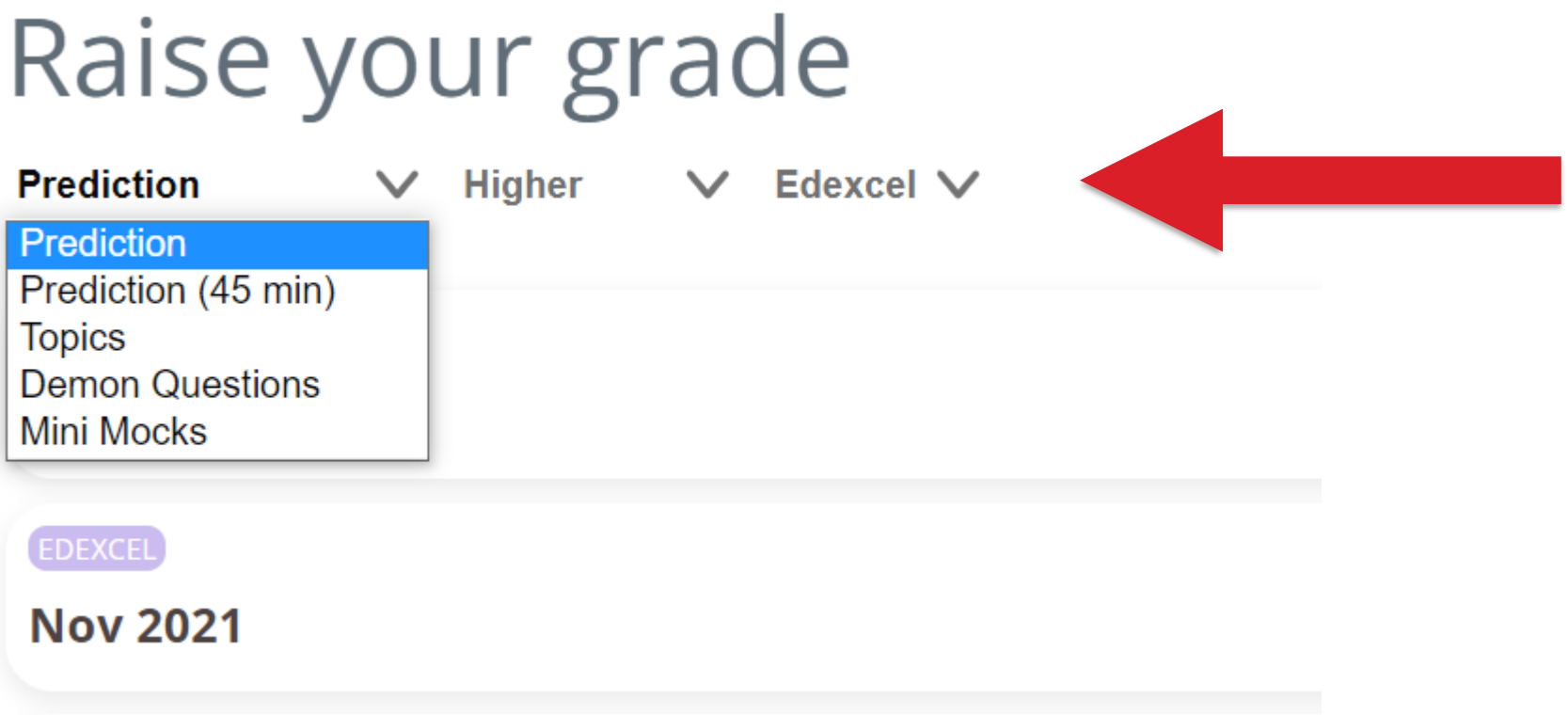
Where do I go to improve my Maths?

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



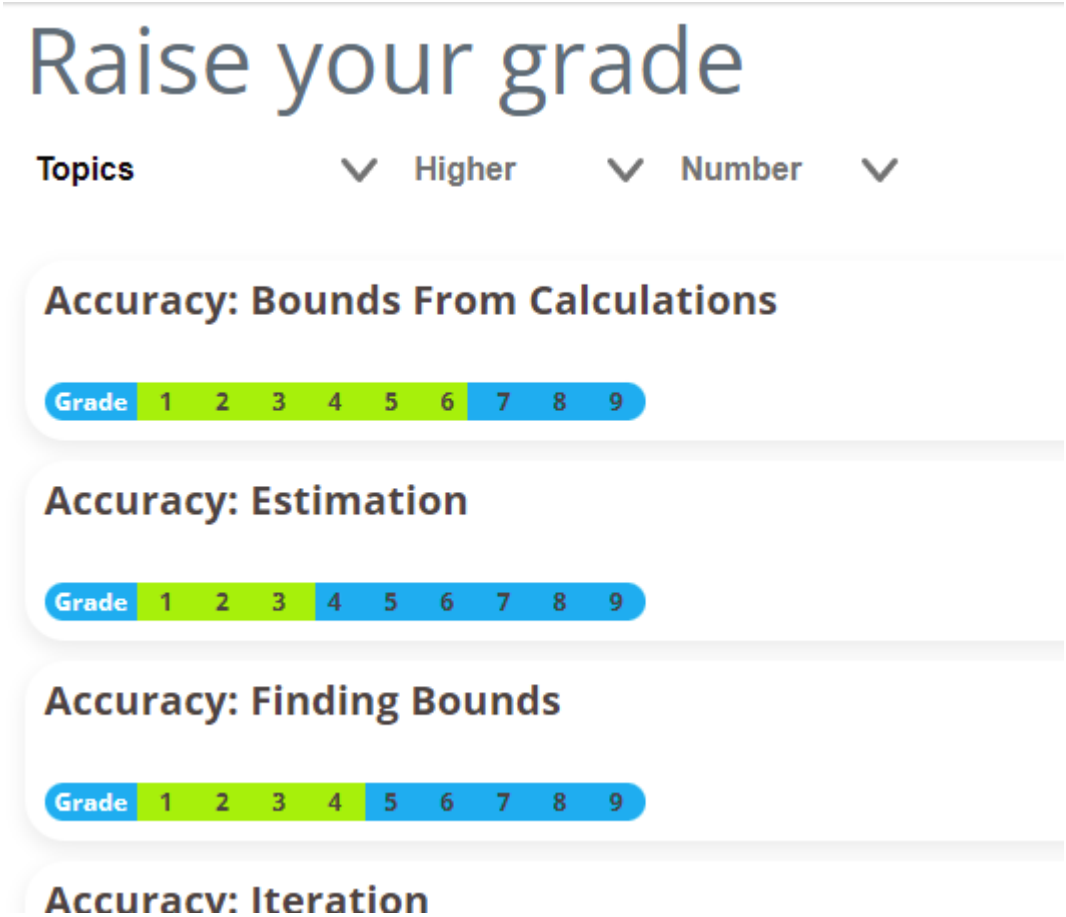
Where do I go to improve my Maths?

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



Where do I go to improve my Maths?

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



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

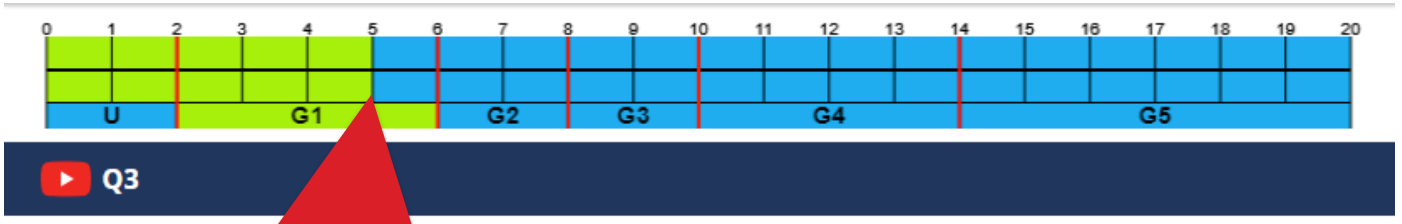
Advice

- 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 (practice exam papers – live marked ☺)



Write these numbers in ascending order:

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

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

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

Select Order

(2)

Mark

Where do I go to improve my Maths?

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

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

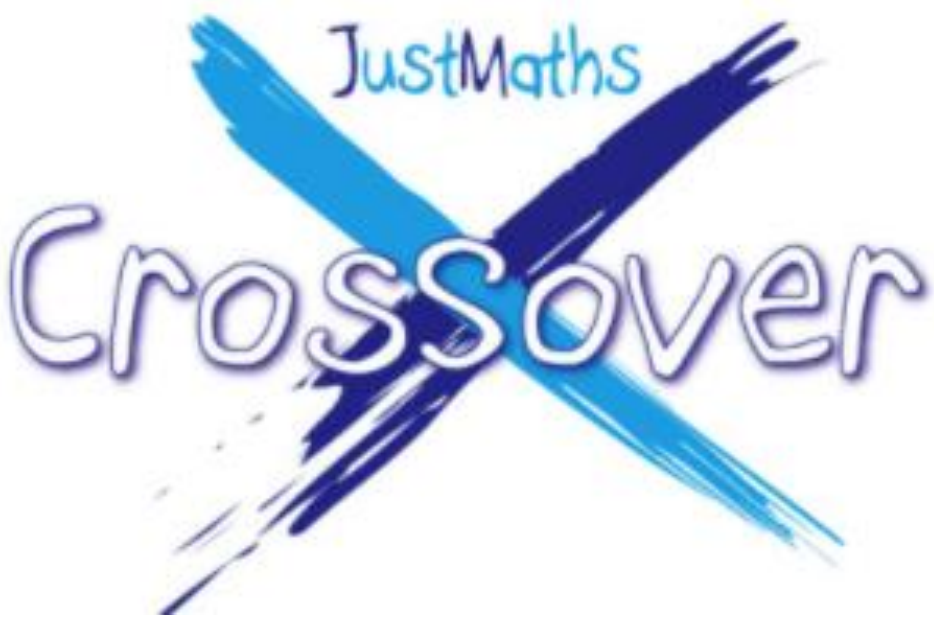
Where do I go to improve my Maths?

online.justmaths.co.uk

Login: LukesStudent

Password: Lukes

More…worksheets, solutions and videos!! ☺☺



Where do I go to improve my Maths?

online.justmaths.co.uk

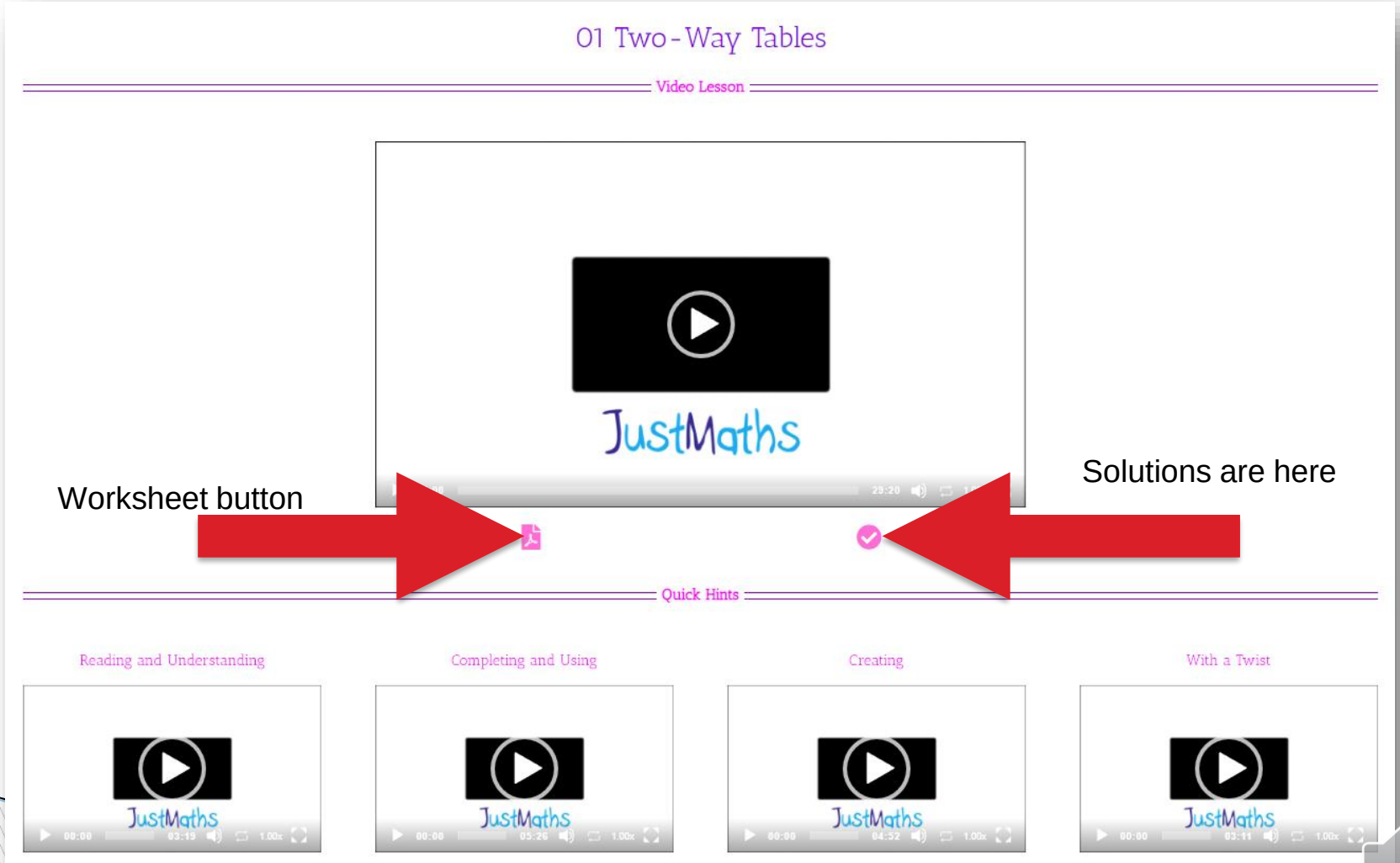
Lessons R.A.G. Exam Solutions Key Skills Challenges Contact Us – Log Out –

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?

online.justmaths.co.uk



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.

100

One of the children is picked at random.

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

$\frac{37}{100}$

.....

Where do I go to improve my Maths?

corbettmaths.com (Worksheets, solutions and videos)

Sparx – independent learning

drfrostmaths.com (tailored questioning to ability).

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

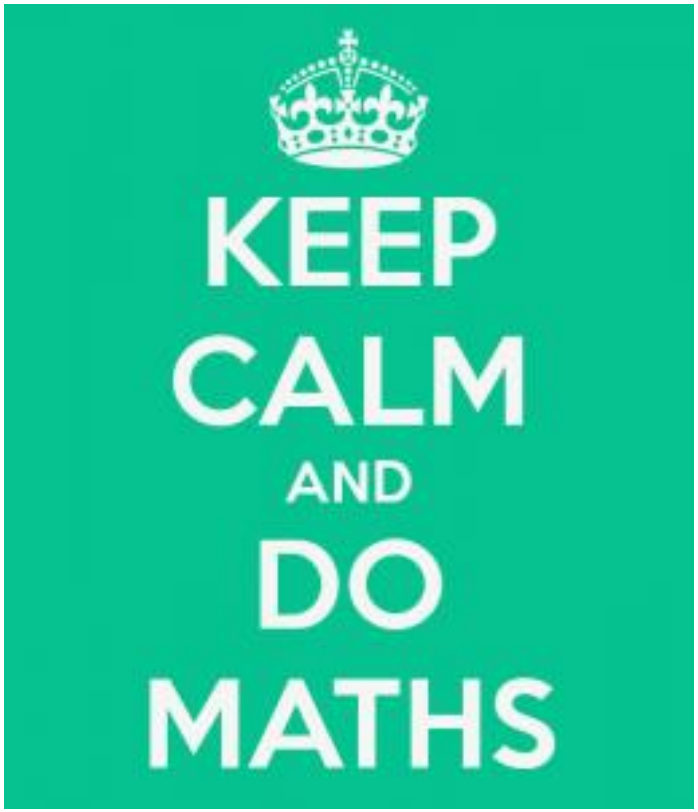
online.justmaths.co.uk

Login: LukesStudent

Password: Lukes

More…worksheets, solutions and videos!! ☺☺

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