

Ensuring your child thrives at home
with their maths...

What is HegartyMaths?

HegartyMaths is the best way for your child to learn maths on their own at home.

1. Every single topic in school maths (850+) is explained in 10 minute video tutorials designed and delivered by, Mr Colin Hegarty. Mr Hegarty is an-award winning teacher who won UK Teacher of the Year 2014 and was nominated in the top 10 teachers in the 2016 Global Teacher Prize. Your child does not have to feel stuck at home as Mr Hegarty can explain any topic to them.
2. After every video, HegartyMaths, has an assessment with questions covering everything taught in the video so students can practise and ensure they understand the maths Mr Hegarty just presented.
3. HegartyMaths records everything your child ever does on the system (their progress and effort), reporting it back to the teacher and to the child so it's clear what their strengths and weaknesses are and how hard they are working.
4. HegartyMaths allows a parent to see everything their child needs to learn and support them. Often parents who may be unsure of the schools methods like to watch the videos along with their child and understand the techniques their child needs to know.
5. HegartyMaths, remembers all the child's mistakes and gives them practice on their weaknesses so they can do impactful independent learning.

The whole curriculum is online for your child to have access to.

Who is this Mr Hegarty of HegartyMaths?

Mr Hegarty....

- 1) ... loves maths and teaching it and knows that any student can do well in maths if they work hard.
- 2) ... was the first person ever in his family to go to University where he got a First in Maths from Oxford University (he believes he was not special or that clever -> he just had good teachers and worked hard!)
- 3) ... became a secondary school maths teacher (his dream job!) as it was his ambition to help any student succeed in maths.
- 4) ... has won teaching awards and been on TV talking about how much he loves maths and wants kids to do well!



Mr Hegarty meeting the Prime Minister with his students from Wembley.



Mr Hegarty on BBC breakfast and Good Morning Britain talking about maths.

Our school's weekly homework routines

1

Your child will always be set at least one homework a week by their teacher.

2

Your child's teacher will choose the lesson they want them to learn and will pick it so that they are revising an important maths revision topic. As such, they will have already probably covered it in class but might have forgotten. Their homework is to revise as, to be a great learner, it's important that your child revises as a habit and not just before tests!

3

Your child need to spend **between 30 minutes and 1 hour** on their homework as this shows effort and commitment and will ensure that they do quality homework.

4

Your child will always be expected to

- i) watch the video + take notes;
- ii) write down your quiz workings neatly;
- iii) mark their own work, make corrections and write down their score at the end.

5

Homework will be checked by your child's teacher in class once a week. Your child will be expected to bring their homework book to class for their teacher to view against the criteria 4 i), ii) and iii) above.

What does a homework on HegartyMaths look like?

hegartymaths

Perimeter (4)

Example
Work out the perimeter of this shape.

$2 \times 12 = 24m$

$8 + 5 + 5 + 8 = 26m$

8m
5m
12m
8m

Video watched 0.00x

Your score **New lesson** HegartyMaths avg **60%**

Do quiz

Step 1:

Video where Mr. Hegarty teaches your child everything they need to know about that topic & goes through all the examples that will be in the quiz.

Step 2:

Quiz that will allow your child to practise all the examples in the video for themselves and know whether they understood what was in the video.

Step 1:

You child needs to watch the video, take notes of all modelled examples.


Perimeter (4)

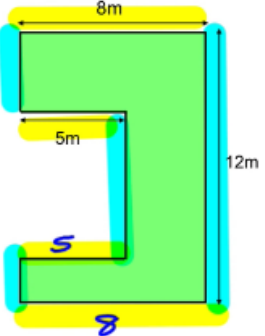
Hegarty
Maths

Example
Work out the perimeter of this shape.

$2 \times 12 = 24m$

$8 + 5 + 5 + 8 = 26m$






Your child will turn each video into fantastic notes in their HegartyMaths homework books.

VIDEO NOTES 14th July 2016


HegartyMaths Perimeter (2)

Example 1



Perimeter = $7 + 7 + 7 + 7$
 $= 4 \times 7$
 $= 28 \text{ mm}$

Example 2



$P = 4 + 9 + 4 + 9$
 $= 18 + 18$
 $P = 2 \times 9 + 2 \times 4$
 $= 18 + 8$
 $P = 2 \times (4 + 9)$
 $= 2 \times 13$
 $= 26m$

Key Words


- Length
- Units
- Distance

Don't forget **Units!**

Double dash means same length but not same as single dash

Doesn't matter which method you use, they all work!

Example 3




Regular means all sides are same length

$P = 6 \times 9$
 $= 54m$

Example 4

Work out the perimeter of a square with side length 5cm.

Always draw a sketch from the information given



$P = 4 \times 5$
 $= 20cm$


Example 5

Work out the perimeter of an equilateral triangle with side length 4.1mm.

same as regular

use distributive law of multiplication

$P = 3 \times 4.1$
 $= 3 \times (4 + 0.1)$
 $= 12 + 0.3$
 $= 12.3mm$



Here is an example of a great homework!

Your child will **always** produce a set of well-written notes of all the modelled examples in the video as we want your child to be an expert note-takers and to revise before they try the quiz. **If your child knows the material, they should still take the notes as it's a good habit and ensure they are producing revision notes every week.**

Step 2:

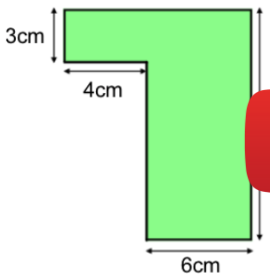
Your child then needs to assess their learning from the video in a quiz.

Geometry & measure > Perimeter > 551 - Perimeter (4) > Quiz

1 > 2 > 3 > 4 > 5 > 6 > 7 > 8 > 9 > 10 >

1 of 12

Work out the perimeter of the shaded shape.



The diagram is not drawn to scale.

cm

Do not use a calculator

Watch video

On-screen keypad OFF


Check

Your child needs to:

- 1) Write down every Q
- 2) Always show all their workings
- 3) Always mark and self-correct their work

Quiz notes

1) Perimeter of Shaded Shape? *No Calculator*

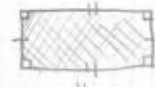


2mm

4 sides all with single dash
↳ square

$$P = 4 \times 2 = \underline{8 \text{ mm}} \checkmark$$

2) Perimeter of Shaded Shape?




6m 11m

Rectangle

$$P = (2 \times 6) + (2 \times 11) = 12 + 22 = \underline{34 \text{ m}} \checkmark$$

3) Perimeter of Shaded Shape?



5m

6 equal sides
↳ Hexagon

$$P = 6 \times 5 = \underline{30 \text{ m}} \checkmark$$

Your child will **always** show their workings and mark all questions they ever do. **If your child can do the question in their head they still need to show their workings as that is part of being a great mathematician.**

Student checklist for great weekly homework

	Action	✓ or ✗
1	I always write the date, title, clip number and H/W for all my tasks.	
2	I always watch the video before attempting the questions.	
3	I always take full notes of all the examples modelled in the video.	
4	I copy every question that I attempt in my book.	
5	I show all my workings for every question in the quiz that I do.	
6	I try to model my work the way I was shown in the video by Mr Hegarty.	
7	I use a pencil and ruler for all diagrams.	
8	I mark my work correct/incorrect as I go.	
9	I write down corrections when HegartyMaths tells me the correct answer.	
10	I write down my score at the end of quiz .	

What to do if your child is stuck on their homework?

The screenshot shows the HegartyMaths interface. At the top, there is a video player for 'Area of sector (2)' with a 'Continue quiz' button. Below this is the 'Building blocks' section, which contains three lessons:

- 546 - Area of a sector (1)**: A lesson on circle measure with a score of 10%. It includes a diagram of a sector with a radius of 10cm. A red arrow points from this lesson to the 'Continue quiz' button.
- 557 - Triangles (1)**: A lesson on area with a score of 100%. It includes a diagram of a right-angled triangle with a height of 8m and a hypotenuse of 15m.
- 56 - Round decimal numbers**: A lesson on decimals with a score of 92%.

1) Watch the **video again** really carefully ensuring all examples are copied and see if hearing and writing it down a second time helps.

2) Look at your **building blocks**. These are the lessons that will help you with your current homework. If these are not at 100% or less than the HegartyMaths avg. then you should redo those them as it will help on your current work.

In the picture, the student will struggle with homework 547 as they have only 10% on lesson 546.

What to do if your child is stuck on their homework?

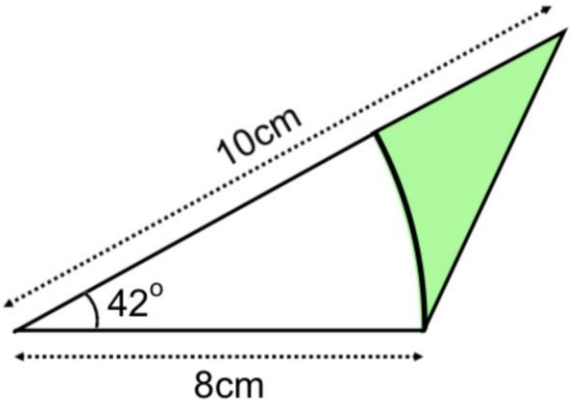
hegartymaths

Geometry & measure > Circle measure > 547 - Area of a sector (2) > Quiz

1 2 3 4 5

5 of 5

Find the area of this green shaded section.
Give your answer rounded to 3 SF.



The diagram is not drawn to scale.

cm²

Watch video

Check

What to do if your child is stuck on their homework?

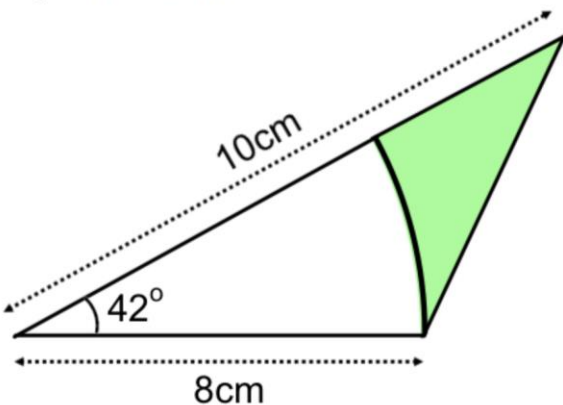
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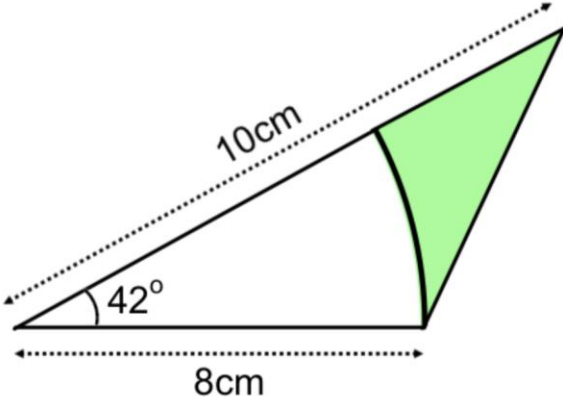
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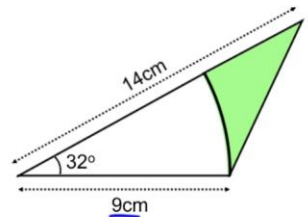
cm²

Area of a sector (2)

Area of sector (2)

Example
Find the shaded area.
Give your answer to 1 decimal place.

Shaded = 


$$= \frac{1}{2}(9)(14) \sin(32) - \frac{32}{360} \times \pi(9)^2$$
$$= 10.755 \dots$$
$$= 10.8 \text{ cm}^2$$

What to do if your child is stuck on their homework?

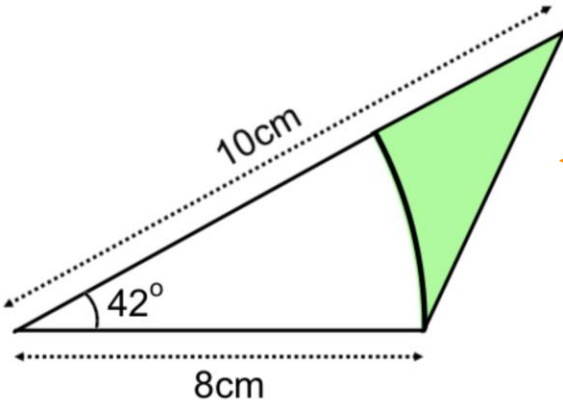
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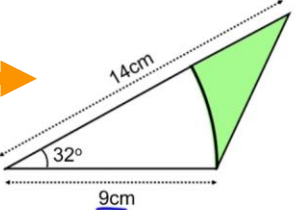
cm²


Watch video

Area of a sector (2)

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There will always be an example in video that will cover an almost identical question to the one they are stuck on. They can also pull the video up in the quiz and scrub the video to the place that will help them on the one they're stuck on.

Why does your child always have to watch the video?

- 1) **Ensures your child will be successful:** Watching the video will ensure your child will do well in the quiz and feel good about their homework and maths. We don't want your child to feel like they are on their own at home and the videos will give you the support they need to guarantee that they have a successful homework.
- 2) **Helps improve their memory:** Copying down modelled examples helps your child remember their maths and get it into their long term memory.
- 3) **Method marks:** Copying down modelled examples helps your child practise how to lay out their maths properly to help them get questions correct and get extra method marks in exams even when they make mistakes.
- 4) **Good revision:** This is revision. When revising one sometimes has to look over material one already knows – that's just as important as learning new things as making old learning solid helps prevent students from forgetting things
- 5) **We think it's important as it helps your child be independent:** Doing maths at home with these good habits and methods will help your child become more independent and be able to learn on their own (a vital life lesson).

What happens when students decide not to watch the video?

- 1) **Students get stuck and frustrated:** Many students who just do the quizzes get really annoyed and frustrated with themselves as they make lots of mistakes and don't understand why or how to get better.
- 2) **Students stay at the same level:** Students who just practise questions only get questions correct on topics they already know and they get questions wrong for topics they don't know yet. They never improve. Watching the video means that for things they already know, they will secure that knowledge, and for things they don't know yet, they can learn and so get better.

What happens when students decide not to watch the video?

“Mr Hegarty, I can't do these homeworks as they are too hard and too I'm stupid!” (Hakim)

Lesson	Score	📺	🕒	💬	📢	Assessment taken
Angles on a straight line (2)	0% (4)	0.00x	10.05mins	0	0/0	21:02 Wed 19th Oct 16
Angles on a straight line (1)	72% (1)	0.00x	5.85mins	0	0/0	15:40 Tue 18th Oct 16
Adding & subtracting positive & negative numbers	70% (1)	0.00x	3.18mins	0	0/0	08:10 Fri 23rd Sep 16
Compare fractions	30% (4)	0.00x	2.56mins	0	0/0	16:20 Tue 13th Sep 16

Very low scores

No video watched.

Spent only 2 mins quiz.

Hakim is upset and thinks he can't do maths.

He is wrong - HE CAN DO MATHS!!!!

He is getting low scores as he is not watching the video or putting in enough effort.

What happens when students decide not to watch the video?

7 of 7 79 seconds to answer this question Hide details

Find the values of the unknown angles marked with letters.

The diagram is not drawn accurately.

$a = 91^\circ$ $b = 89^\circ$ $c = 65^\circ$
 $d = 115^\circ$

Correct! Well done.

Hakim 14:16 Wed 2nd Nov 16
I have got the hang of this now. I have taken on board Mr Hegarty's comments to watch the video and improve

Hakim smashes it!!!!!!!!!!

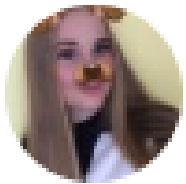
Mr Hegarty reminded Hakim that he needs to spend longer on his homework, watch the video, take notes and write down all his workings. The next week Hakim completed a much harder homework, got it all correct and wrote back a comment to say thanks and he now knows how to improve and succeed.

What happens when students use Hegarty maths properly?

- 1) Students start enjoying maths and understand more in lessons.
- 2) Students like doing their homework as they feel successful.
- 3) Students do well in their exams.

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jodieLOVESDEMI 🏳️‍🌈 @demsdaddyissues · Aug 24

@hegartymaths Thank you for helping me pass maths with a 5, couldn't have done it without you 🙏😂



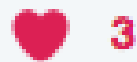
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lydia @lydiaruthhhh · Aug 23

firstly, @hegartymaths for helping me get a 9 in maths, 100% recommend this helpful resource if you are struggling in maths like me



Show this thread

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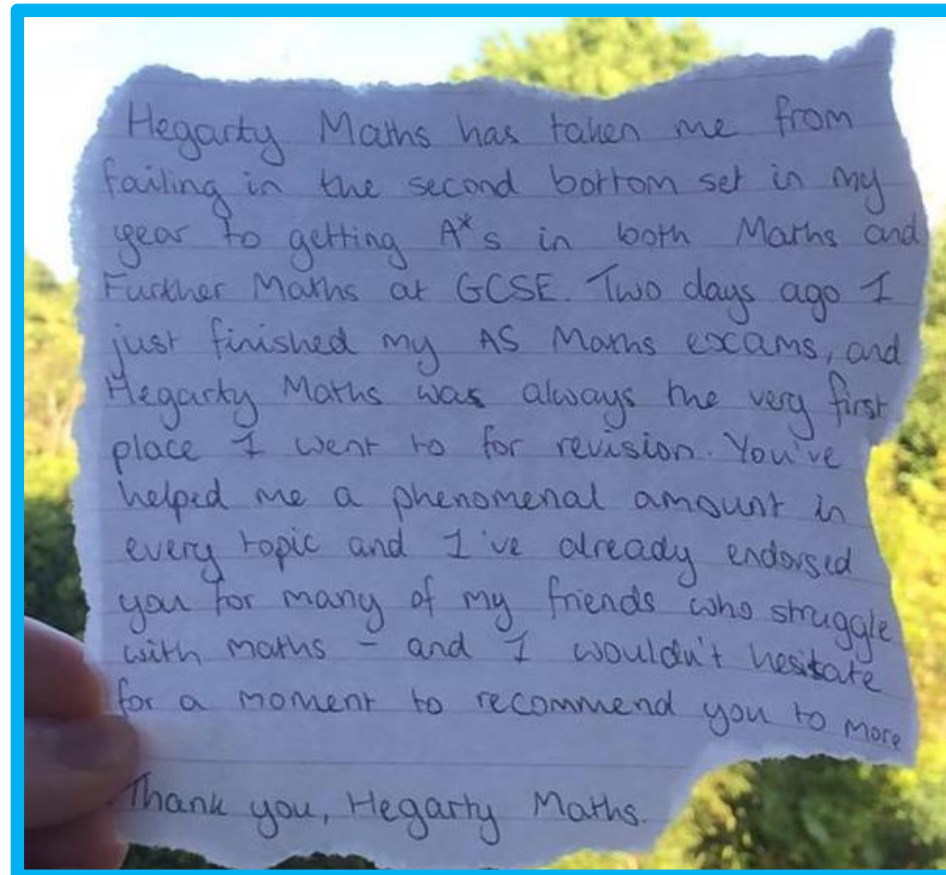
CCA Official Page @HeadCCA · Aug 23

After 50 hours and over 6000 questions answered on [@hegartymaths](#), Lucy is rewarded with a grade 4 in maths. Well done! [#ccaway](#) [#accountable](#)



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I was in the bottom set in maths in my school. I started doing lots of HegartyMaths and got better at maths. My teacher saw my progress in HegartyMaths and combined with my end of term assessment I was moved up two sets!

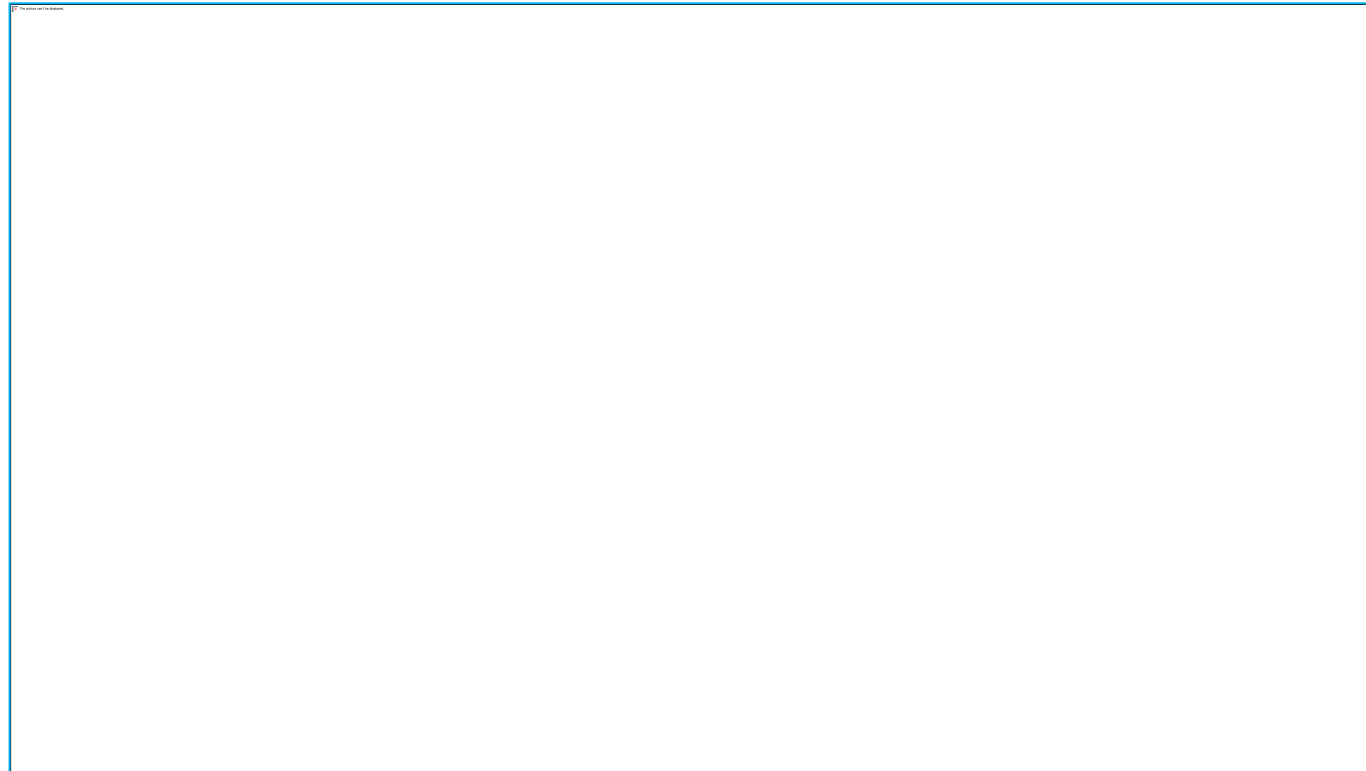
Rohan

I would like to thank you for everything you have done. You have made me go from a student who hates maths, to someone who is in love with it!

Baran

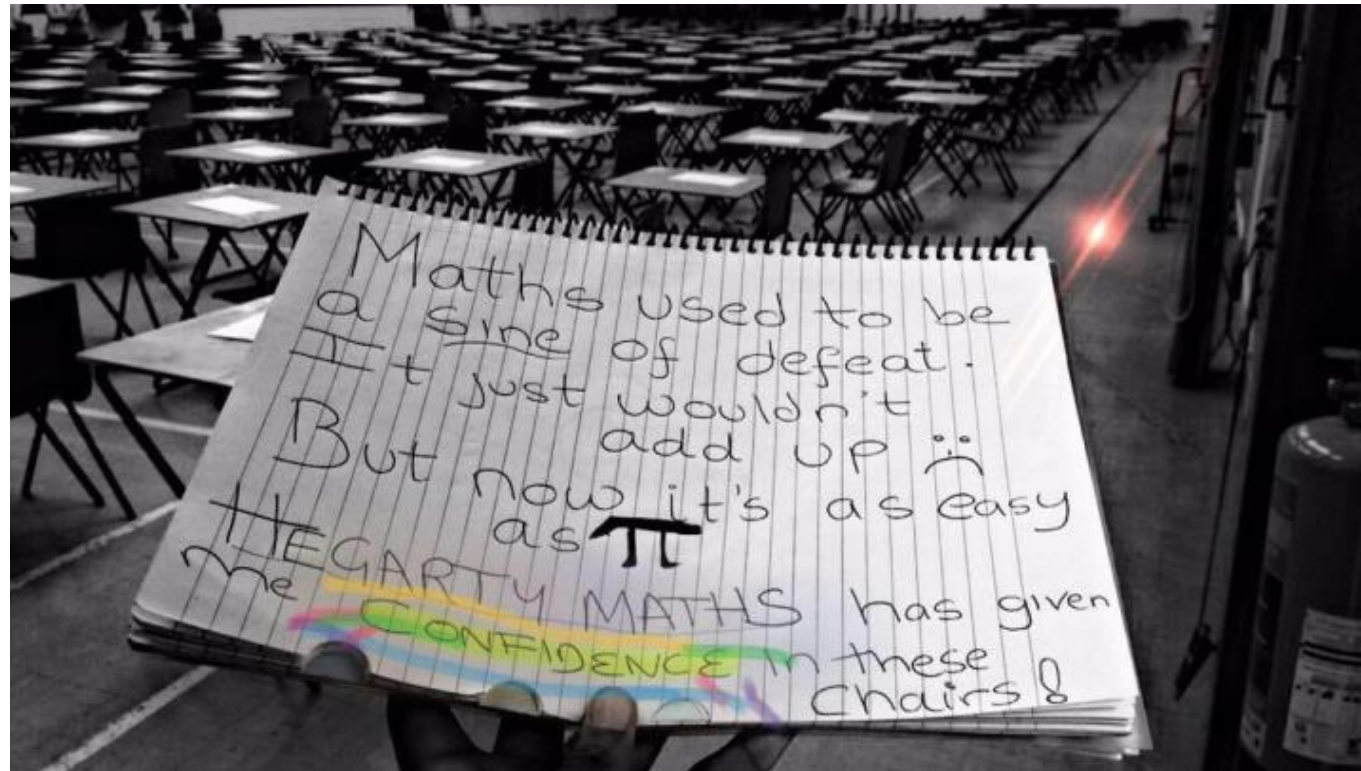
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What do other parents say?

- 1) They like being able to understand what their child is learning.
- 2) It allows them to participate and help
- 3) They have seen their children become more confident and improve.

Hi! I thought I would just write a little note in reference to my gcse maths. I am a mum who has always been eluded by maths and decided last year (because my son would be sitting his gcse in 2015) I would have another go at night school. I spent all of my spare time revising and practising but was still struggling until someone mentioned Hegarty maths on Youtube. I then spent much of the time with headphones and a kindle and practised past papers (the higher one) and it eventually started to sink in! I had my results last week and I have passed! I just wanted to say a massive thank you; your explanations were superb and I really felt like you were sat there with me! I had tangent and circle theorems reverberating round my head for weeks, 'we know that if a radius of a circle isthen the....!!' Some people dream of climbing Everest or swimming the channel - I just wanted to reassure myself that maths was not a mystery and, with your help, it no longer is! Thank you

Happy parent

What do other parents say?

- 1) They like being able to understand what their child is learning.
- 2) It allows them to participate and help
- 3) They have seen their children become more confident and improve.

"I think HegartyMaths is a fantastic resource, it really allows me to support with homework - we watch the videos together, they are excellent". "I think it is a good system - I like how you can check how long they spent on the homework and if they have watched the videos. As a parent, I would be prepared to pay for it!"

Happy parent

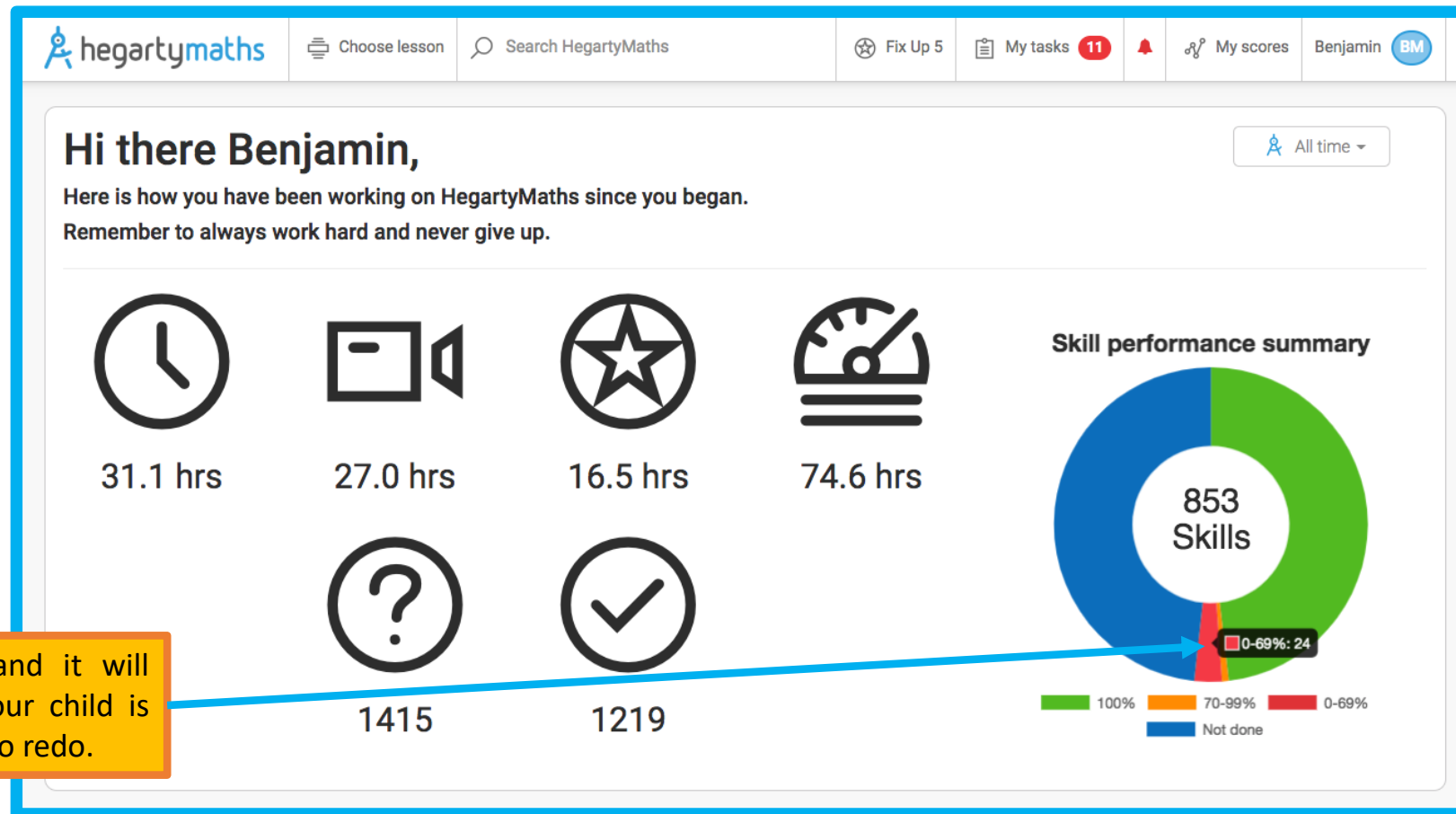
What if your child has completed all homework – what else could they do?

5 things you should do when you want to do extra work

	Action	✓ or ✗
1	I go back to my donut and pick lessons that are red (<70%) to redo them to make them amber (>70%) or green (100%).	
2	I go back to my donut and pick lessons that are amber (>70%) to redo them to make them green (100%).	
3	When working on lessons that are red or amber and I cannot make them 100% , I rewatch the video and look at the building blocks which may help me.	
4	I complete a Fix-Up-5 where HegartyMaths gives me 5 practice questions on parts of maths that I might be weak on.	
5	If my teacher has given me a revision list of clips on HegartyMaths, then pick a topic on that list and complete a homework the normal way myself.	

What if your child has completed all homework – what else could they do?

1) Use their donut to improve their weak areas: Your child can click the red section to find the quizzes they need to improve (**quizzes under 70%**) and redo them until they are amber (**quizzes over 70%**) or green (**quizzes at 100%**). Once they have made everything green or amber go back over the amber and try to get them to green.



Click the red section and it will open up any lessons your child is **under 70%** on for them to redo.

What if your child has completed all homework – what else could they do?

2) Fix up 5: HegartyMaths remembers every mistake your child has ever made and generates a quiz with 5 questions from different parts of maths that they are weak on so they can re-do them with the video and **Fix Up!**

Fix Up 5

Fix Up 5 no.	Score	Time	Date completed
244	2/5	1min	19:11 Fri 7th Sep 18
243	1/5	< 1 min	17:51 Fri 7th Sep 18
242	1/5	1min	15:49 Fri 7th Sep 18
241	3/5	4mins	11:46 Fri 7th Sep 18
240	1/5	1min	15:57 Thu 6th Sep 18
239	2/5	5mins	17:05 Wed 5th Sep 18
238	1/5	2mins	17:51 Tue 4th Sep 18
237	0/5	< 1 min	16:48 Tue 4th Sep 18
236	2/5	3mins	16:48 Tue 4th Sep 18
235	0/5	1min	14:23 Mon 3rd Sep 18

13
Questions fixed up
this year
in 0.3hrs

Start

My current streak
1

My best streak
3

[Click here to learn about our Fix Up 5.](#)

Page 1 of 25

What if your child has completed all homework – what else could they do?

3) Learn a new section: Your child's teacher may have given them a revision list of clips so they can now use that to find a clip on HegartyMaths that will be something that will help get ahead.

hegartymaths

Foundation Skills List

Number

Topics	Clip Number			
Ordering positive integers	13, 14			
Ordering negative integers	37			
Ordering decimals	45, 46			
Ordering fractions	60			
Addition and subtraction of positive integers	18, 19, 20			
Multiplication and division of positive integers	21, 22, 23, 144, 145			
Addition and subtraction of negative integers	38, 39, 40, 41			
Multiplication and division of negative numbers	42, 43			
Addition and subtraction of decimals	47			
Multiplication and division of decimals	48, 49, 50, 51, 135, 136			
Addition and subtraction of fractions	65, 66			
Multiplication and division of fractions	67, 68, 69, 70, 71, 72			
Place value: multiplying and dividing by 10	15, 16			
Order of operations	24, 44, 120, 150			
Prime numbers, prime factorisation	28, 29, 30			
Factors, multiples, HCF and LCM	27, 31, 32, 33, 34, 35, 36			
Powers and roots	99, 100, 101			
Using standard form	121, 122, 123, 124			
Calculating with standard form	125, 126, 127, 128			
Converting decimals to/from fractions	52, 53, 73, 74, 149			
Converting percentages to/from fractions	75, 76, 82, 149			
Converting percentages to/from decimals	55, 83			
Simplifying fractions	59, 61			
Mixed numbers and improper fractions	63, 64			
Fractions of amounts	62, 77			
Increasing/decreasing by fractions	78, 79			
Fraction problems	80			
Percentages of amounts	84, 85, 86, 87			
Percentage increase/decrease	88, 89, 90			
Percentage change	97			
Reverse percentages	96			
Simple interest	93			
Percentage problems	98			
Rounding	17, 56, 134			
Rounding to significant figures	130			
Estimating answers	129, 131, 132, 133			
Working with money	747, 748, 749, 750, 751			
Money problems	752, 753, 754			
Financial statements	757			
Income and rates of pay	755, 756			
Profit and loss	759, 760, 761, 762			
Best buys	763, 764, 765, 766, 767			

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Multiplication and division of negative numbers	42, 43			
Addition and subtraction of decimals	47			
Multiplication and division of decimals	48, 49, 50, 51, 135, 136			
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If your child want to learn Simple interest type clip number 93 into the **Search Bar**, watch the video and do the quiz in the normal way.

hegartymaths



Choose lesson

93

Fix Up 5

93 Simple interest

8 things parents could do at home to help their child...

	Action	 or 
1	Each week ask about your child's homework Ask your child what day the homework was set, when it must be handed in, what clip number and topic it is and when your child plans to complete the homework. Try to encourage your child to complete the homework well before the due date.	
2	Provide your child a good place to work Provide your child a quiet but supervised place to work. As the homework is online, it's good to be in the room to ensure your child is not getting distracted by other online activities. Furthermore, as it's a written homework, your child will need a desk, table or flat surface to copy their notes. If you don't have a suitable place at home to work or weak wifi, please encourage your child to attend their school's homework club.	
3	Get your child the correct equipment Your child will need a black/blue pen for all working, a pink highlighter for marking all wrong questions, a green highlighter for marking all correct questions, a red pen for writing corrections, a pencil and ruler for drawing all diagrams. Many lessons also require a scientific calculator and geometry set.	
4	Encourage your child to work in the right way Please always check your child has carried out their homework following the three requirements below which will have been modelled and encouraged by their teacher: i) Always watch the video and take notes of all modelled examples provided; ii) Always write each Q down and show all their workings always; iii) Always mark each question, make corrections and write their score at the end.	

8 things parents could do at home to help their child...

5	Sign-off their homework each week Each week ensure you sign-off your child's maths homework to say you have viewed it and believe they spent 30 mins to 1 hour on it and they have completed the 3 key expectations above.	
6	Encourage your child not to give up if they are making mistakes If your child is making mistakes, tell them that is ok and normal. As long as your child is working in the correct way (watching the video, taking notes, writing their workings and self-correcting) then praise them for their hard work and application. Try not to focus on their score as this can demotivate them. If you praise their effort and tell them they will eventually improve if they keep working in this way they will be happy and want to do their weekly homework.	
7	Reassure your child if they are not understanding If your child completely does not understand the video, watch it with them and try to help them understand. Also look below the video to their building blocks. Redoing these lessons will help your child plug any gaps in their prior learning needed for the current homework.	
8	Help them do extra work or get ahead Before learning new topics, always encourage your child to do two things: i) Fix lessons marked in their donut as red (under 70%) or amber (between 70 and 100%) and try to make them green (100%) by redoing them. ii) Complete a Fix-Up-5 . HegartyMaths will remember every mistake your child has ever made and gives them 5 practice questions on their weaknesses with the help video. This will allow your child to improve quickly. Once the two above are done, then you can consider completing extra new lessons. Ask your child's teacher for the best extra clips to do.	