

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

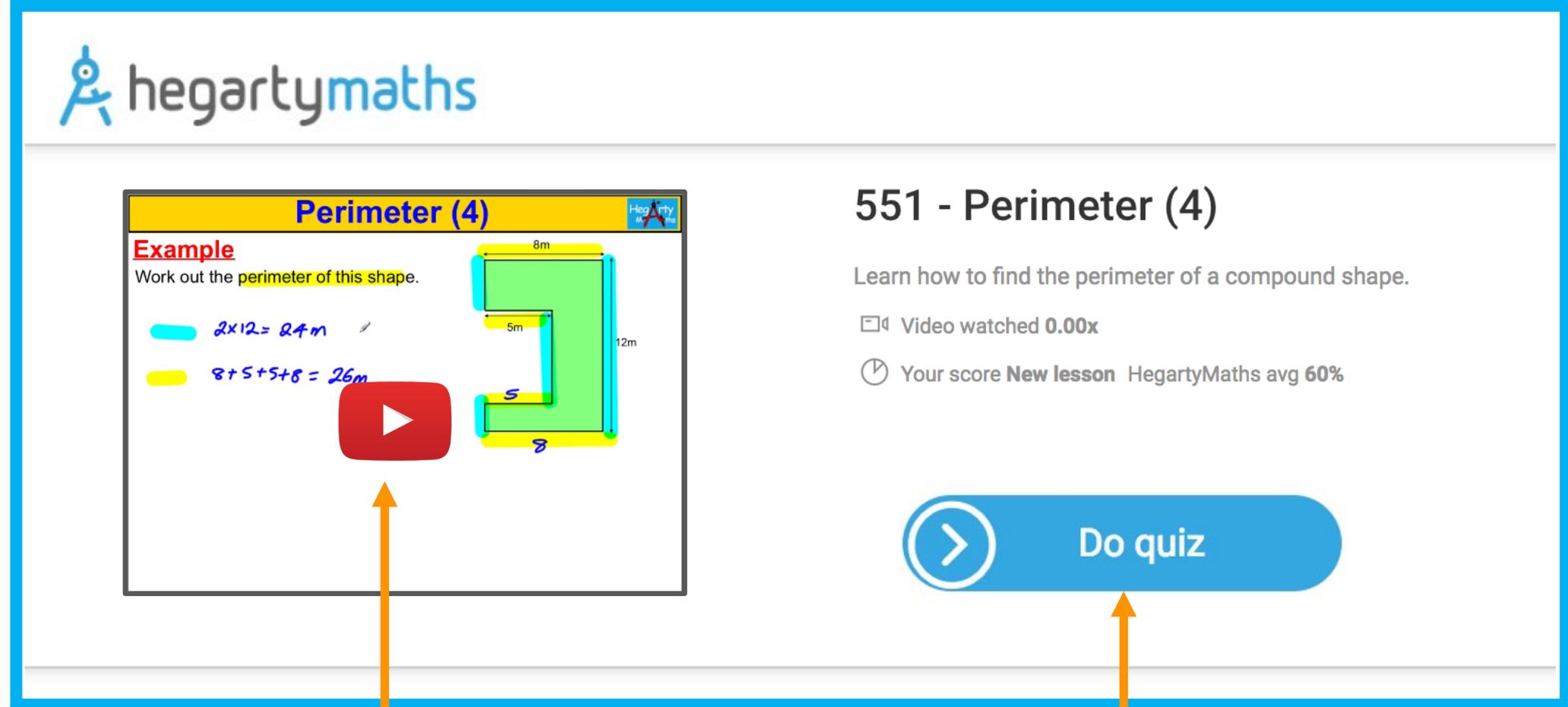
# What is HegartyMaths?

**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.**

# What does work 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:**

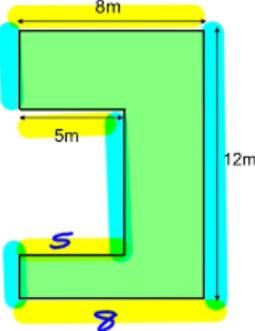
Quiz that will allow your child to practise all the examples in the video for themselves and know whether they understood what was in the video.

# Step 1:

You child needs to watch the video, taking notes of examples.

### Perimeter (4)

**Example**  
Work out the perimeter of this shape.



$2 \times 12 = 24m$

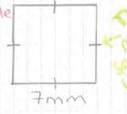
$8 + 5 + 5 + 8 = 26m$



### VIDEO NOTES

14<sup>th</sup> July 2016

**Example 1**

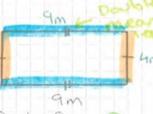


Perimeter =  $7 + 7 + 7 + 7$   
 $= 4 \times 7$   
 $= 28mm$

**Key Words**

- Length
- Units
- Distance

**Example 2**



Perimeter =  $4 + 9 + 4 + 9$   
 $= 18 + 8$   
 $= 26m$

Perimeter =  $2 \times 9 + 2 \times 4$   
 $= 18 + 8$   
 $= 26m$

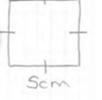
Perimeter =  $2 \times (4 + 9)$   
 $= 2 \times 13$   
 $= 26m$

**Example 3**



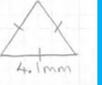
Perimeter =  $6 \times 9$   
 $= 54m$

**Example 4**



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

**Example 5**



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

**Notes:**

- Don't forget Units!
- Double dash means same length as other double dash but not same as single dash.
- Doesn't matter which method you use, they all work!
- Regular means all sides are same length.
- Always draw a sketch from the information given.
- Here is an example of a great homework!

## Step 2:

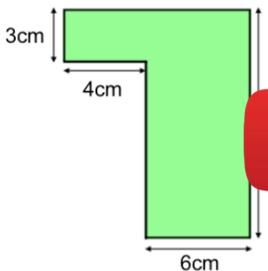
Your child then needs to assess their learning from the video in a quiz.

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

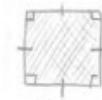
Check

Ideally 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*

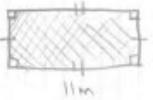


2mm

4 sides all with single dash  
↳ Square

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

2) Perimeter of Shaded Shape?

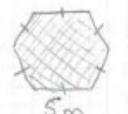


6m 11m

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 should **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.**

# What to do if your child is stuck on their work?

The screenshot shows the HegartyMaths interface. At the top, there is a video player for 'Area of sector (2)' with a red play button. To the right, a quiz progress bar shows '547 - Area of a sector (2)' with a score of 61% and a 'Continue quiz' button. Below this, the 'Building blocks' section lists three lessons:

- 546 - Area of a sector (1)**: Progress 10%, Last learned 01:51 Fri 29th Jun 18, Video watched 0.01x, Completed in 1min. A red circular arrow icon indicates it needs to be redone.
- 557 - Triangles (1)**: Progress 100%, Last learned 01:57 Fri 29th Jun 18, Video watched 0.01x, Completed in 2mins. A green checkmark icon indicates it is complete.
- 56 - Round decimal numbers**: Progress 92%, Last learned 01:55 Fri 29th Jun 18, Video watched 0.61x, Completed in 1min. A red circular arrow icon indicates it needs to be redone.

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 work. 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 work 547 as they have only 10% on lesson 546.

# What to do if your child is stuck on their work?

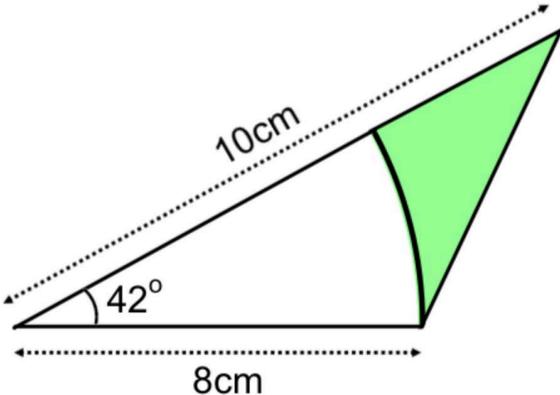
hegartymaths

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.

cm<sup>2</sup>

Watch video

Check

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

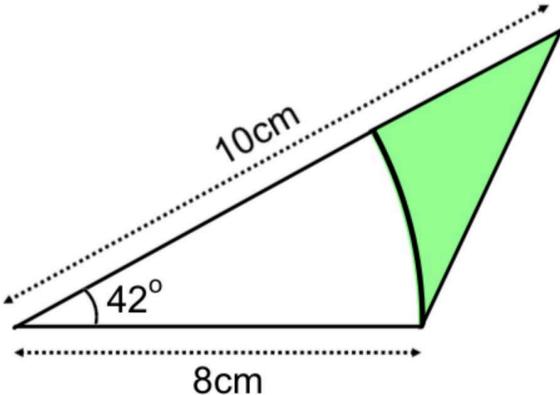
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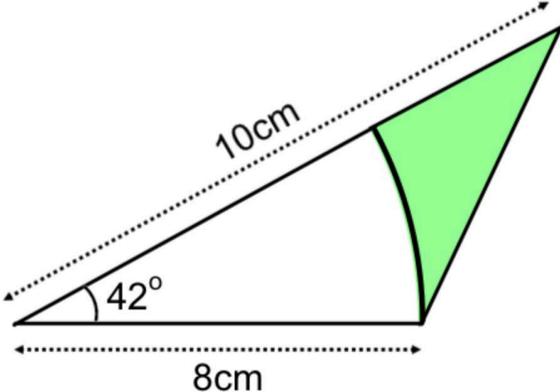
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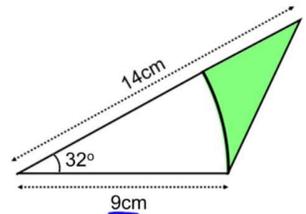
cm<sup>2</sup>

Watch video

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?

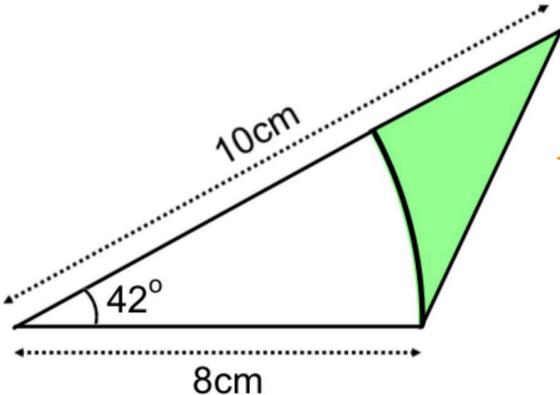
hegartymaths

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

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5 of 5

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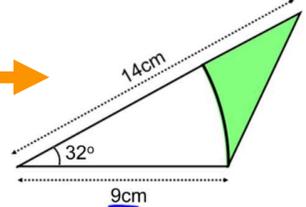
cm<sup>2</sup>

Watch video

Area of a sector (2)

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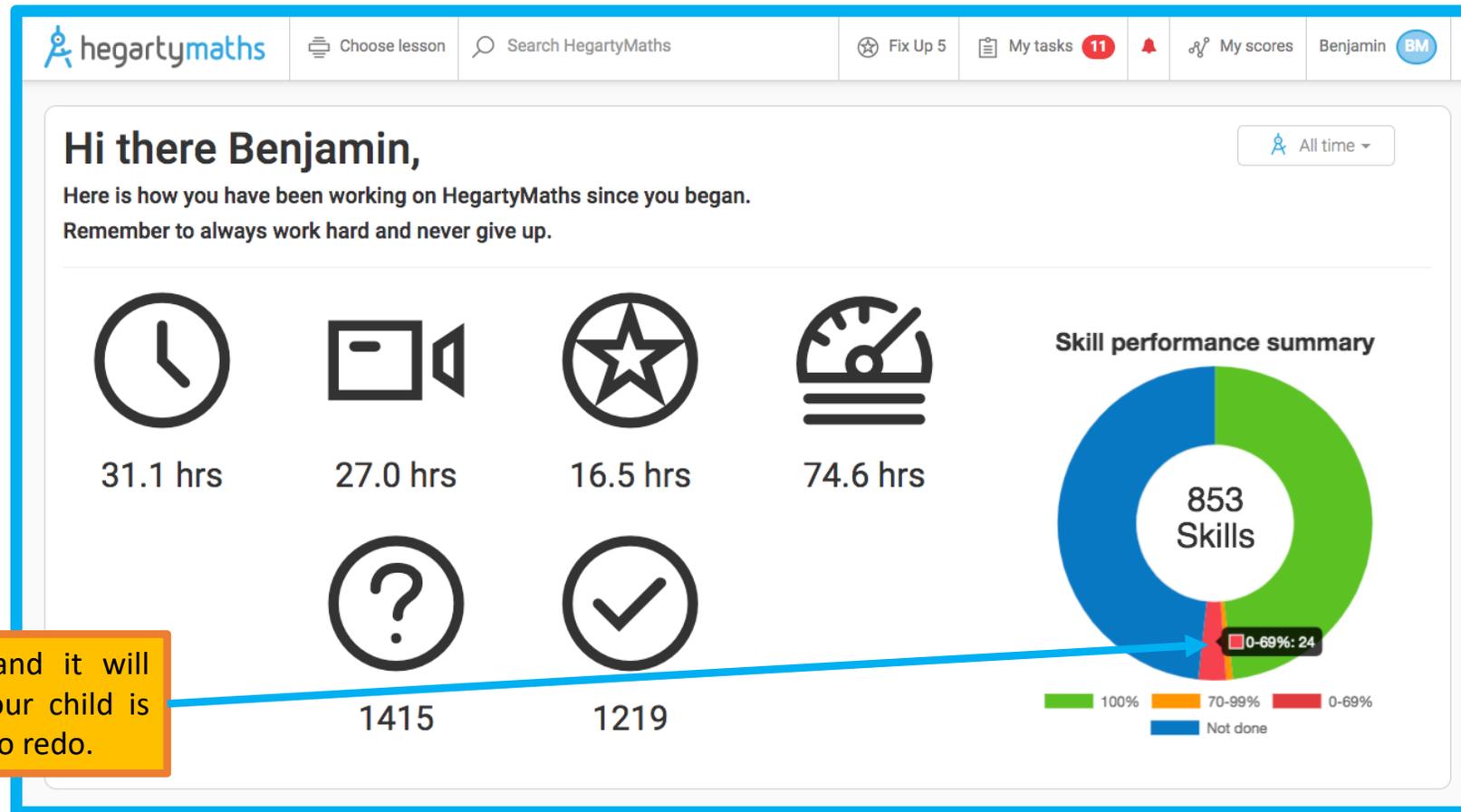
There will always be an example in video that will cover an almost identical question to the one they are stuck on. They can also pull the video up in the quiz and scrub the video to the place that will help them on the one they're stuck on.

# 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 if your child has completed all work – 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 work – 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 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

Page 1 of 25

# What if your child has completed all work – 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.

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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			

# What if your child has completed all work – 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

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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			
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			
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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			
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Income and rates of pay	755, 756			
Profit and loss	759, 760, 761, 762			
Best buys	763, 764, 765, 766, 767			

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/carers could do at home to help their child...

	<b>Action</b>	<b>✓ or ✗</b>
<b>1</b>	<b>Each week ask about your child's homework</b> 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.	
<b>2</b>	<b>Provide your child a good place to work</b> 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.	
<b>3</b>	<b>Get your child the correct equipment</b> 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.	
<b>4</b>	<b>Encourage your child to work in the right way</b> 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/carers could do at home to help their child...

5	<p><b>Sign-off their homework each week</b></p> <p>Each week ensure you sign-off your child's maths homework to say you have viewed it and believe they spent <b>30 mins to 1 hour</b> on it and they have completed the 3 key expectations above.</p>	
6	<p><b>Encourage your child not to give up if they are making mistakes</b></p> <p>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.</p>	
7	<p><b>Reassure your child if they are not understanding</b></p> <p>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.</p>	
8	<p><b>Help them do extra work or get ahead</b></p> <p>Before learning new topics, always encourage your child to do two things:</p> <ol style="list-style-type: none"><li>i) Fix lessons marked in their donut as <b>red (under 70%)</b> or <b>amber (between 70 and 100%)</b> and try to make them <b>green (100%)</b> by redoing them.</li><li>ii) Complete a <b>Fix-Up-5</b>. 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.</li></ol> <p>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.</p>	