



Improving Independent Study Skills



ASPIRE

BELIEVE

ACHIEVE

What is Hegarty Maths?

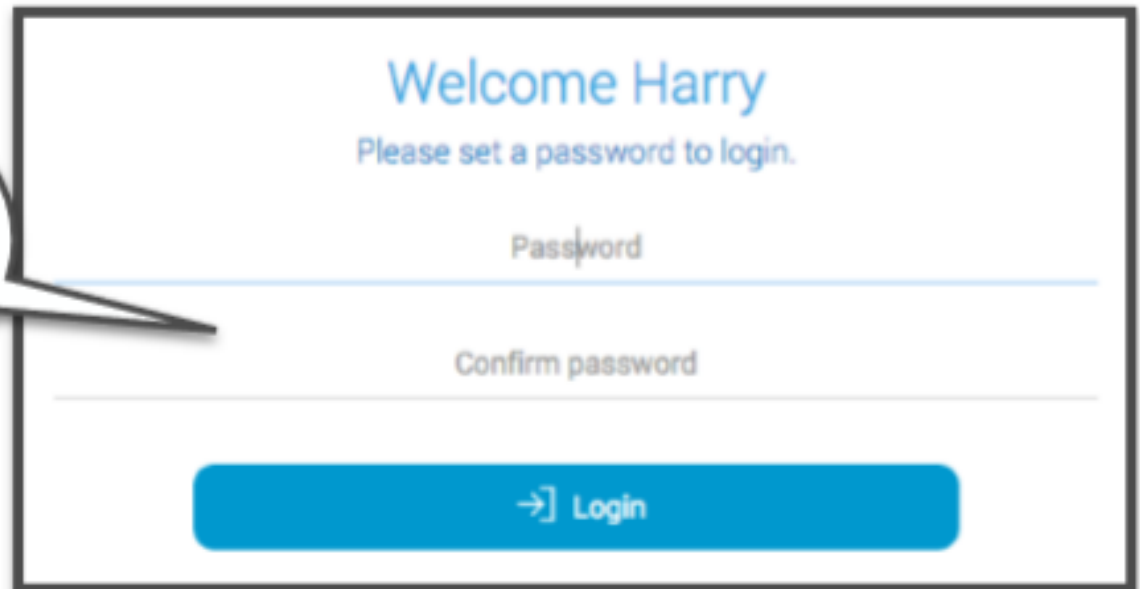
- An online platform for all year groups to help students learn, practice and revise maths;
- Each topic is broken into tiny pieces with a video and a quiz to test understanding
- Topics range from simply learning times tables all the way through to grade 9 topics at GCSE.
- There is something for everyone!

What will students get?

- 24/7 access, 365 days of the year;
- Their own username and password;
- All homework set through the website;
- Homework club available every day at lunchtime if students need it;

Set and confirm your own password.

Remember to write it in your maths book and planner!



Welcome Harry

Please set a password to login.

Password

Confirm password

→] Login

What does studying look like?

Number > Place value

Read and write positive integers

Big Idea: Place Value

A video explaining the topic by a real maths teacher

13 - Read & write positive integers

Learn how to identify the place value of various numbers; some easy and some complex.

Video watched 0.00x

Your score **New lesson** HegartyMaths avg 89%

Do quiz

A self-marking quiz that is directly related to the video – no trick questions

Spotted a mistake in this video?

Building blocks

Question preview

Evaluate

8 + 9

Number > Arithmetic with positive integers

9 - Addition facts

Video watched 0.00x

Your score **New lesson** HegartyMaths avg 97%

Question preview

Evaluate


Number > Arithmetic with positive integers

10 - Multiplication facts (times tables)

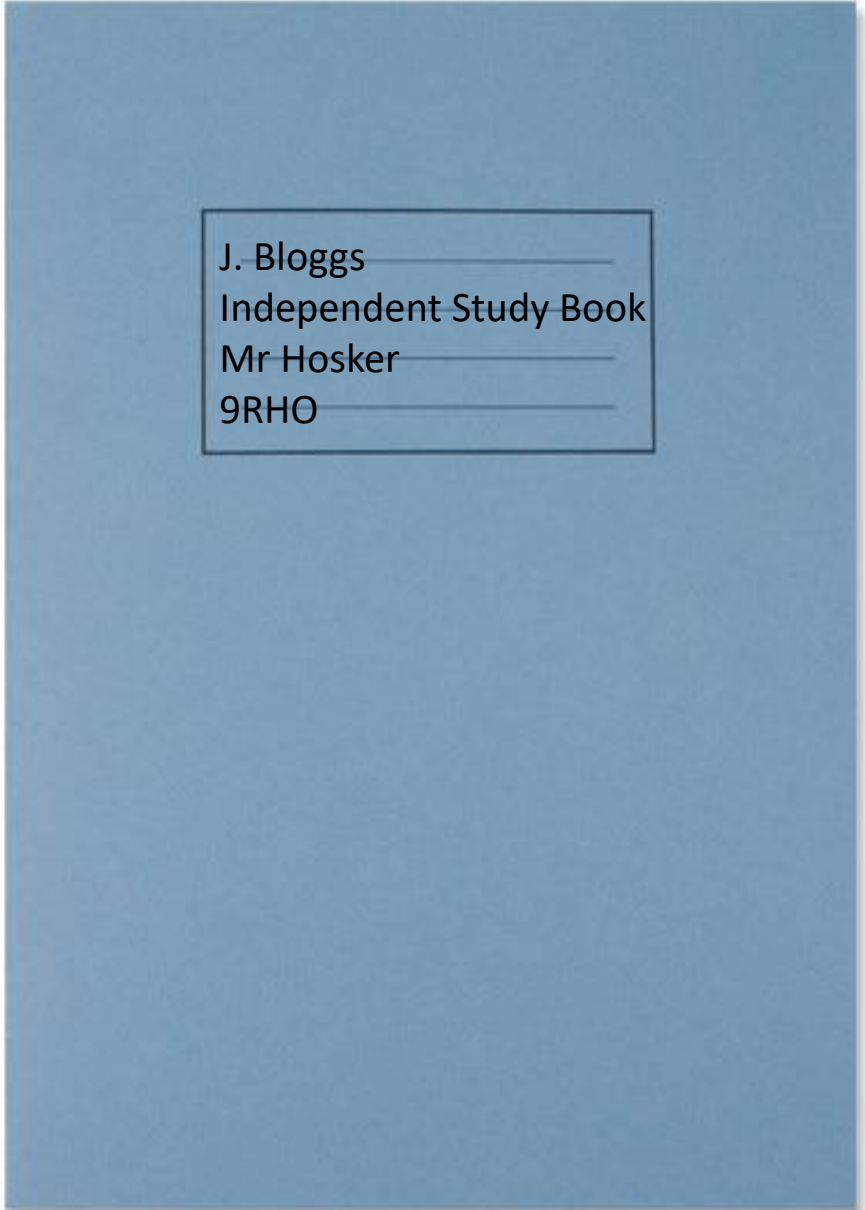
Video watched 1.00x

Building blocks – don't understand the video? Building blocks show you the topics you need to understand BEFORE you try this new topic. They act as more support for your learning.

Maths Independent Study Book



All working
should be
completed in
your Independent
Study book



J. Bloggs _____
Independent Study Book
Mr Hosker _____
9RHO _____

Maths Independent Study Book (MIS book) Excellence Checklist	I get it
I know that I need to show my working/take key notes from the video clip in my book and that I need to bring my book in every Monday.	
I know that these tasks will act as revision of topics that we learnt recently but not from this week.	
I need to write and underline the title, video number and date.	
I understand that I can use my book to help me with my weekly quiz, and the more detail I include the more use it will be as a revision aid.	
I use a ruler and a pencil for diagrams.	
If I don't get 70%, I need to do the quiz at least one more time to correct mistakes (my teacher will know how many times I have watched the video and done the quiz). I must always watch the video in full before attempting a second time.	
My teacher may re-assign the task to me if they feel I have not put in sufficient effort – I then need to complete it asap.	
I can send comments to my teacher via the 'bell' icon. I need to read my teacher's replies by clicking on it when highlighted and clicking the button that indicates I have read the comments.	
If I do not understand the video I have been set I will watch the building blocks and aim to get 100% on the scores for these too before watching the video I have been set again.	
I write my final attempt quiz score in my book at the end of the homework.	
If I have issues accessing the internet at home, or if I keep getting less than 70% after trying more than once, I will ask my teacher for support or come to homework club in M7.	
Homework in Maths will be set every Monday and will be due in the following Monday	
I understand that there will be sanctions should I not complete the homework on time.	
Date _____ Parent/Carer Signature: _____ Student Signature: _____	

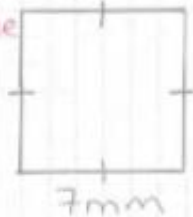
What does excellence look like?

VIDEO NOTES

Hegarty maths: Perimeter (2)

14th July 2016

Example ①



Dash means same length

Key words

- Length
- Units
- Distance

$$\begin{aligned} \text{Perimeter} &= 7+7+7+7 \\ &= 4 \times 7 \\ &= \underline{28 \text{ mm}} \end{aligned}$$

Don't forget units!

Example ②



Double dash means same as other double dash but not same as single dash

$$\begin{aligned} P &= 4+9+4+9 \\ &= 18+8 \\ &= \underline{26 \text{ mm}} \end{aligned}$$

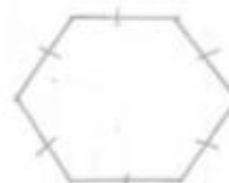
$$\begin{aligned} P &= 2 \times 9 + 2 \times 4 \\ &= 18 + 8 \\ &= \underline{26 \text{ mm}} \end{aligned}$$

$$\begin{aligned} P &= 2 \times (4+9) \\ &= 2 \times 13 \\ &= \underline{26 \text{ mm}} \end{aligned}$$

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

Here is an example of a great homework!

Example ③



Hexagon has six sides

9m

$$\begin{aligned} P &= 6 \times 9 \\ &= \underline{54 \text{ m}} \end{aligned}$$

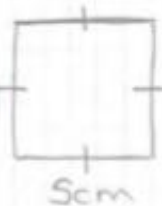
Regular means all sides are same length

Example ④

④

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

Always draw a sketch from the information given



$$\begin{aligned} P &= 4 \times 5 \\ &= \underline{20 \text{ cm}} \end{aligned}$$

Example ⑤

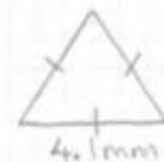
⑤

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

same as regular

use distributive law or multiplication

$$\begin{aligned} P &= 3 \times 4.1 \\ &= 3 \times (4 + 0.1) \\ &= 12 + 0.3 \\ &= \underline{12.3 \text{ mm}} \end{aligned}$$



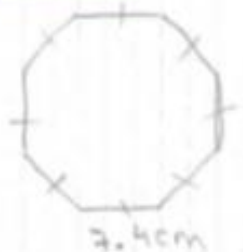
Example

⑥

Work out the perimeter of a regular octagon with side length of 7.4cm.

$$\begin{aligned} 8 \times 4 &= 32 \\ 8 \times 0.4 &= 3.2 \end{aligned}$$

$$\begin{aligned} P &= 8 \times 7.4 \\ &= 8 \times (7 + 0.4) \\ &= 56 + 3.2 \\ &= \underline{\underline{59.2 \text{ cm}}} \end{aligned}$$



Example

⑦

Work out the perimeter of a rectangle with width 5.2cm and height 7.9cm.

$$\begin{aligned} P &= (2 \times 5.2) + (2 \times 7.9) = 2 \times (5.2 + 7.9) \\ &= 10.4 + 15.8 \\ &= \underline{\underline{26.2 \text{ cm}}} \end{aligned}$$



Mental Maths

$$5.2 + 7.9 = 13.1$$

$$13.1 \times 2 = \underline{\underline{26.2}}$$

REMEMBER!
There is more than one way 😊

Quiz Notes

1) Perimeter of Shaded Shape? No Calculator

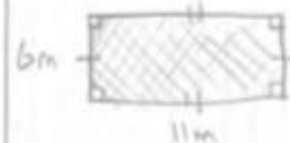


2mm

4 sides all with single dash
↳ Square

$$\begin{aligned} P &= 4 \times 2 \\ &= \underline{\underline{8 \text{ mm}}} \checkmark \end{aligned}$$

2) Perimeter of Shaded Shape?



6m

11m

Rectangle

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

3) Perimeter of Shaded Shape?



5m

6 equal sides
↳ Hexagon

$$\begin{aligned} P &= 6 \times 5 \\ &= \underline{\underline{30 \text{ m}}} \checkmark \end{aligned}$$

What score did you get in the quiz?

100%

Great effort! Why not try the next HW or **improve some of your other scores.**

Below 70%

70 - 99%

Try the quiz again and work hard to learn from any previous mistakes.

Don't give up. If you have taken full notes of the video, worked on your building blocks and you're still struggling then leave comments for your teacher to ask for help. It's important you make sure you **ask your teacher for help** to make sure you can eventually get 100%.

We are monitoring student efforts



Total time watching videos



Time spent in total



Total time spent on quizzes

17.2 hrs

Total time doing Fix Up 5s

15 hrs

20.1 hrs

52.3 hrs

Questions answered correctly



Number of questions answered

1219



1096

Minimum
Target =
30 mins
per week

Student	Collecting like term...	Collecting like term...	Simplifying expres...	Simplifying expres...	Expand a single br...	Expand two single...	Expand double bra...	Expand double bra...	Expand double bra...	Expand double bra...	Expand brackets (d...	Expand triple brack...	HCF of algebraic e...	Factorise simple ex...	Factorise simple ex...	Simplifying expres...	Simplifying expres...	Expressions with al...	Indices with algebr...	Indices with algebr...	Indices with algebr...	Students topic aver...
Courtney	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%		70%	100%	66%		81%
Zeeshan	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	80%	100%	100%	100%	100%			100%	93%		82%
Jordan	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%	100%	100%	100%	80%		100%	100%		88%
Jaideen	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	20%	100%	100%	100%	100%			88%	80%		79%
Joseph	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	80%	0%	90%	84%					100%			62%
Luis	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	60%	80%	80%	92%	100%							65%
Jamie	100%	100%	100%	70%	100%	100%	10%	40%	100%	100%			80%	84%	100%	60%	0%			87%	60%	64%
Lauren	100%	60%	100%	100%	100%	100%	100%	90%	90%	80%	20%	80%	100%	80%					100%	66%		68%
Cemein	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	40%	100%	100%	100%	100%				100%	93%		81%
Joshua	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%	90%	100%			100%	73%		82%
Anthony	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%	100%	100%	100%		90%	88%	100%		87%
Jessica	100%	100%	100%		100%	100%	100%	100%	100%	20%												36%
Chloe	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Benjamin	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	40%	100%	100%	100%	80%			100%			76%
Karthikan	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	100%	100%	100%	70%	100%	100%	60%	100%	80%		90%

- We can see student scores
- We can see what time of day they began it
- We can see whether/how many times they watched the video
- We can see how many times they attempted the task
- We can answer questions and provide feedback via the 'bell' function on the site.

Certificates and Rewards

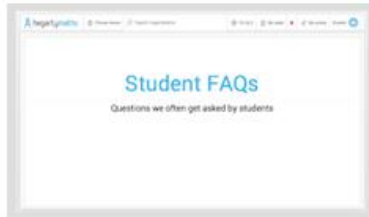


Most Skills Completed Certificate
Most Skills Completed to 100% Certificate
Most Skills Completed Independently Certificate
Most Quiz Reattempts Certificate
Most Questions Answered Correctly Certificate
Most Questions Answered Certificate
Most Questions Fixed Certificate
Most Hours of Learning (Videos) Certificate
Most Hours of Learning (Quizzes) Certificate
Most Hours of Learning (Fix-Up 5) Certificate
Most Hours of Learning (Total) Certificate

- Hegarty Leaderboard Updated for each year group
- Half termly rewards for leaders and big improvers

Support

There is student help section on the website



FAQs

These are the questions we get asked by students all the time. ([Is your question in here?](#))



Starter Guide

Download our student starter guide (it's also a great read for parents) ([click here](#))



Favourite Downloads

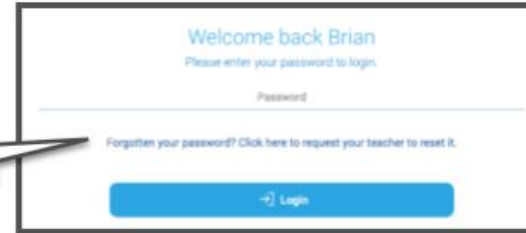
Here are some great resources for you to use and share

- **Can you do all these skills?** - You should have seen most of these KS3 booster skills in Primary School (PDF) ([click here](#))
- **new** GCSE **Higher** Skills Revision List [[Word](#) | [PDF](#) | [Both documents](#)]
- **new** GCSE **Crossover** Skills Revision List [[Word](#) | [PDF](#) | [Both documents](#)]
- **new** GCSE **Foundation** Skills Revision List [[Word](#) | [PDF](#) | [Both documents](#)]
- **Pre-A Level Transition Course** - absolute must-know skills before studying Maths in the sixth form (PDF) ([click here](#))
- **new** **Thank your teacher** - let your teacher know they've done a great job (PDF) ([click here](#))

FAQ's

What if I forget my password?

This link will **notify your teacher** that you need the password reset when they next login.



What device should I use?

HegartyMaths will work on any modern device but we **recommend a PC or Mac for the best experience.** Tablets work well too.

HegartyMaths will work on the latest versions of Chrome, Edge, IE and Safari. **We do not support Firefox.**

What browser should I use?

Do I have to watch the video?

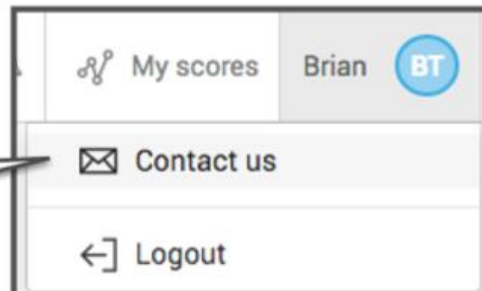
In short, yes! The video and the quiz are designed together so that you can be successful. The video will show you how to tackle the majority of the problems assessed in the quiz.

Try and explain to your teacher in a comment what you think is wrong. Submit a **question problem report.**

What do I do if I think there is a mistake in a question?

How can I contact HegartyMaths?

You can give us feedback on the site using the **contact us** form.



A Hegarty Walkthrough...

A typical independent study task, and a chance for you to have a go!

The task will be a simple one:

Video 18 – addition

I will model a perfect example of how to approach the task.

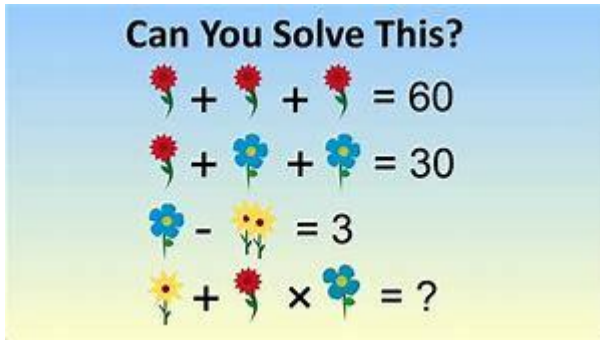
Weekly quizzes



Quiz details

- LOW-STAKES
- Test conditions – no peeking or talking!
- Students can look at independent study book allowed
- Take places on most Monday's
- Out of 15/25
- 15/25 minutes
- Mainly calculator
- Self or peer marked
- Feedback straight after
- Scores recorded – may be shared at parents evening but not formally through tracking – LOW STAKES!
- Less than 40% - teachers will provide support
- Points will be awarded
- Hegarty Maths will help with some aspects of the quiz
- Based on topics students were taught 3 weeks ago and six weeks ago
- They still still sit 3 formal assessments per year

6 Problem Solving Quizzes



5	11	18
1	4	*
16	49	121

- To help with problem solving skills
- Teacher's will mark
- Out of 15/25
- Students will be given 15/25 minutes
- Questions may not have an answer!
- Rewards will be available.

Changes to teacher feedback

- Exercise/independent study books will be self and peer marked by students, not teachers
- Teachers will mark all problem solving quizzes and a minimum of one other quiz per half term
- All Hegarty Maths tasks will be marked by teachers.
- All students feedback will be responded to
- Teacher will feedback either in class or online where students are encountering problems
- Part of the feedback process may be encouraging students to improve independent learning skills
- Quality of work in exercise books and independent study books will be monitored in class
- Not less marking, but more sensible and impactful use of time



Improving Independent Study Skills



“INDEPENDENT STUDY + REGULAR LOW-STAKES TESTING = SUCCESS”