Learn With Eclipse

User Guide

Free maths practice · No sign-in needed





Hints when you're stuck



Tricky questions saved



Printable worksheets

For children, parents, carers and teachers

Version 1.2 · November 2026 · LearnWithEclipse.com

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SECTION 1

Welcome to Learn With Eclipse



Learn With Eclipse is a free maths practice website for primary school children. It covers the National Curriculum for England from Key Stage 1 (Years 1 and 2) to Key Stage 2 (Years 3 to 6), including practice for the Year 4 Multiplication Tables Check and the Year 6 SATs.

There are **58 activities** with **275 levels** between them. Every question is made up fresh, so you can play a level as many times as you like and never run out of questions.

Meet Eclipse

Eclipse is your friendly guide. Eclipse asks the questions, gives hints when you're stuck, cheers when you get one right and shows you how to solve the tricky ones. Eclipse never says "wrong"! Mistakes are part of learning, so Eclipse saves them for you to try again later.



Hello!



Hints



Have another go



Let's learn it



Well done!

What you need

- A computer, tablet or phone with an up-to-date web browser, such as Chrome, Edge, Safari or Firefox.
- An internet connection. The website works while you are online.
- That's all. **There's nothing to install, no account and no sign-in.**

Who this guide is for

This guide is written for everyone who uses Learn With Eclipse: children practising on their own, parents and carers helping at home, and teachers using it in class or printing worksheets. Parts that are mainly for grown-ups are marked with a note.

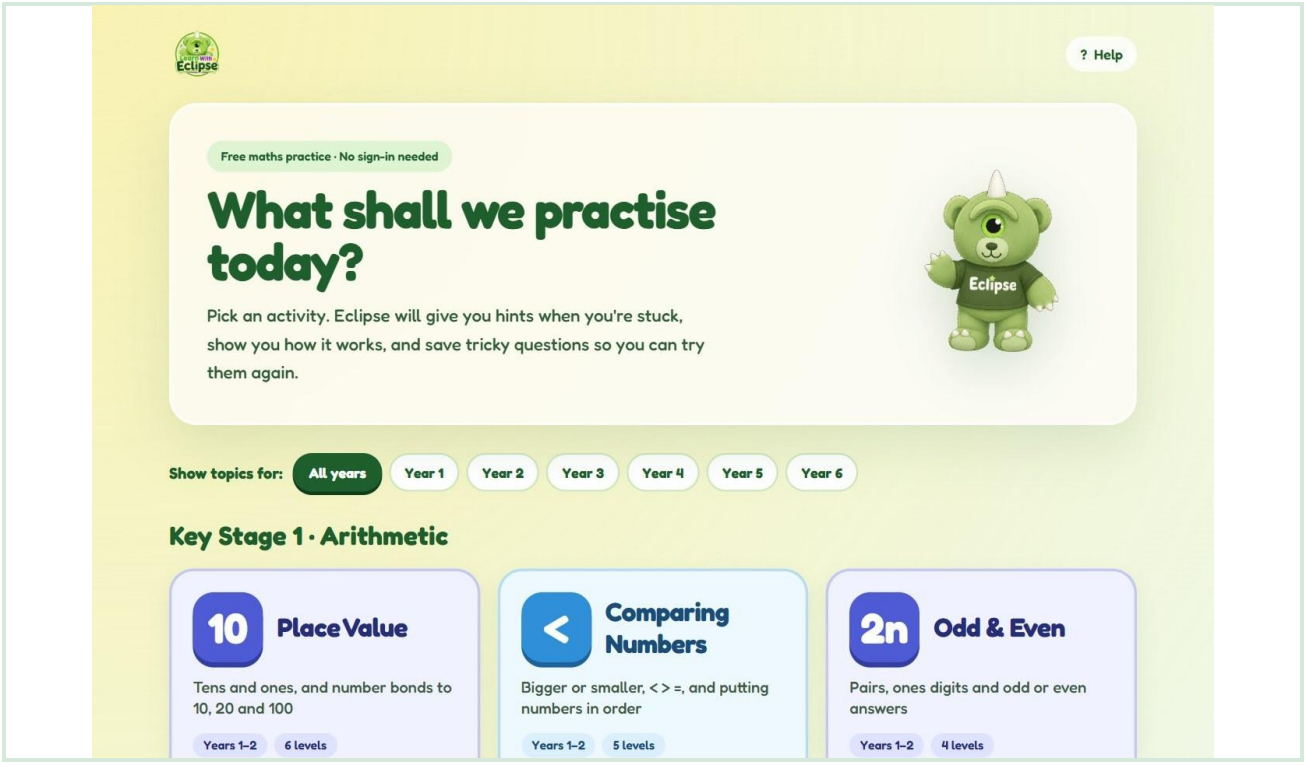
You can open this guide from the **Help** link at the top of every page on the website, and download it as a PDF from the help page.

SECTION 2

Getting started



Open your web browser and go to **LearnWithEclipse.com**. You'll see the home page straight away. There's nothing to sign up for.



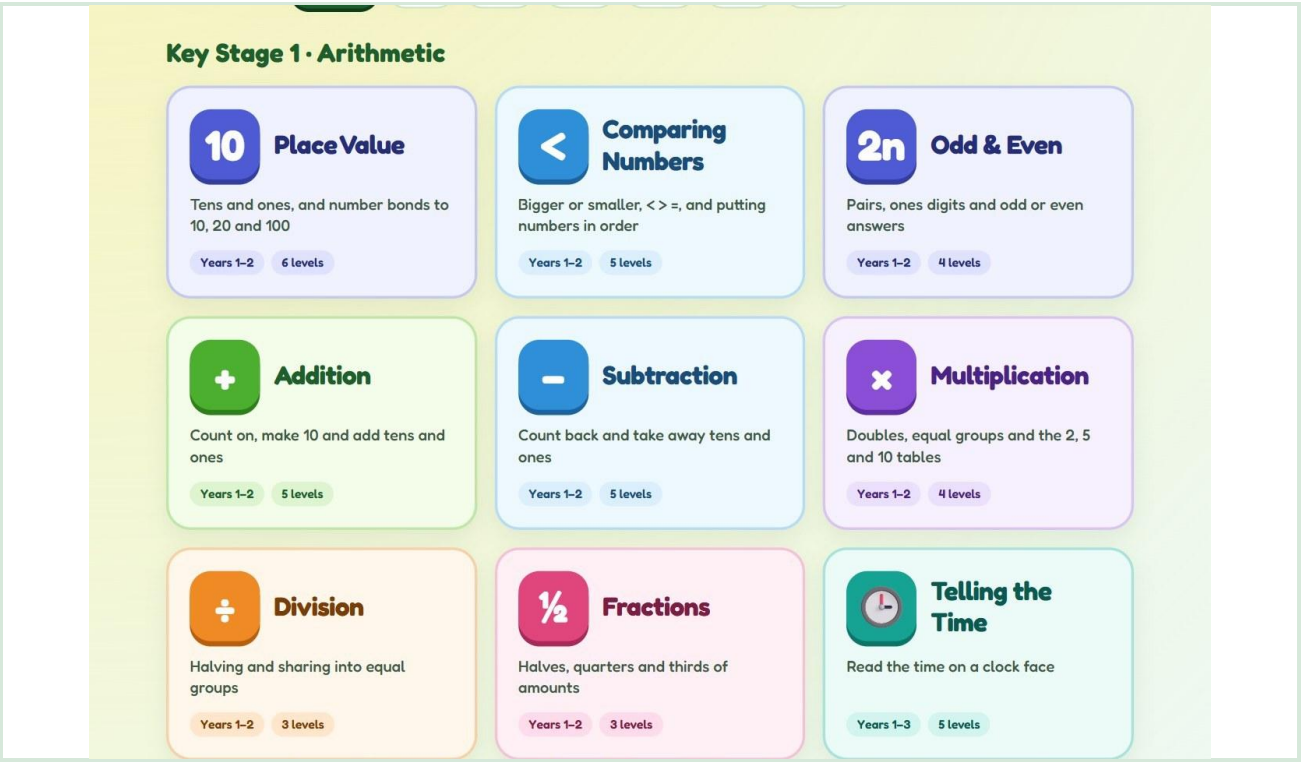
The home page. Eclipse asks: what shall we practise today?

Finding an activity

Scroll down the home page to see all the activities. They are grouped into sections, so it's easy to find the right ones for your year group:

Section	What's in it
Key Stage 1 · Arithmetic	Place Value, Comparing Numbers, Odd & Even, Addition, Subtraction, Multiplication, Division, Fractions, Telling the Time, Days & Months, Measures, Number Bond Drills, Fractions of Shapes, Coins
Key Stage 1 · Algebra	Missing Numbers, Number Patterns
Key Stage 1 · Shapes, Position & Statistics	2D Shapes, 3D Shapes, Position & Direction, Tally Charts & Pictograms
Key Stage 2 · Arithmetic	Addition, Subtraction, Multiplication, Division, Fractions, Times Tables Check, Division Facts Check, Mental Maths, Long Division, More Fractions, Percentages, Order of Operations, Estimating & Checking, Word Problems
Key Stage 2 · Number & Measurement	Place Value, Decimals, Negative Numbers, Factors & Primes, Ratio & Proportion, Measurement, Time & Timetables, Money, Number Lines, Reading Scales

Section	What's in it
Key Stage 2 · Geometry & Statistics	Area & Perimeter, Angles, Volume & 3D Shapes, Coordinates, Shapes & Symmetry, Statistics, Pie Charts & Tables, Venn & Carroll Diagrams
Key Stage 2 · Algebra	Mystery Numbers, Function Machines, Sequences, Formulae, Equations
Key Stage 2 · SATs Practice	SATs Practice



Activity cards. Each card shows the years it's for, how many levels it has and how many you have passed.

Each activity card shows:

- the activity's **name and symbol**,
- a short line about **what you'll practise**,
- the **school years** it's for, such as Years 1–2,
- how many **levels** it has, and
- once you've played it, a ★ **passed** badge counting the levels where you scored 2 stars or more.

Click or tap a card to open that activity.

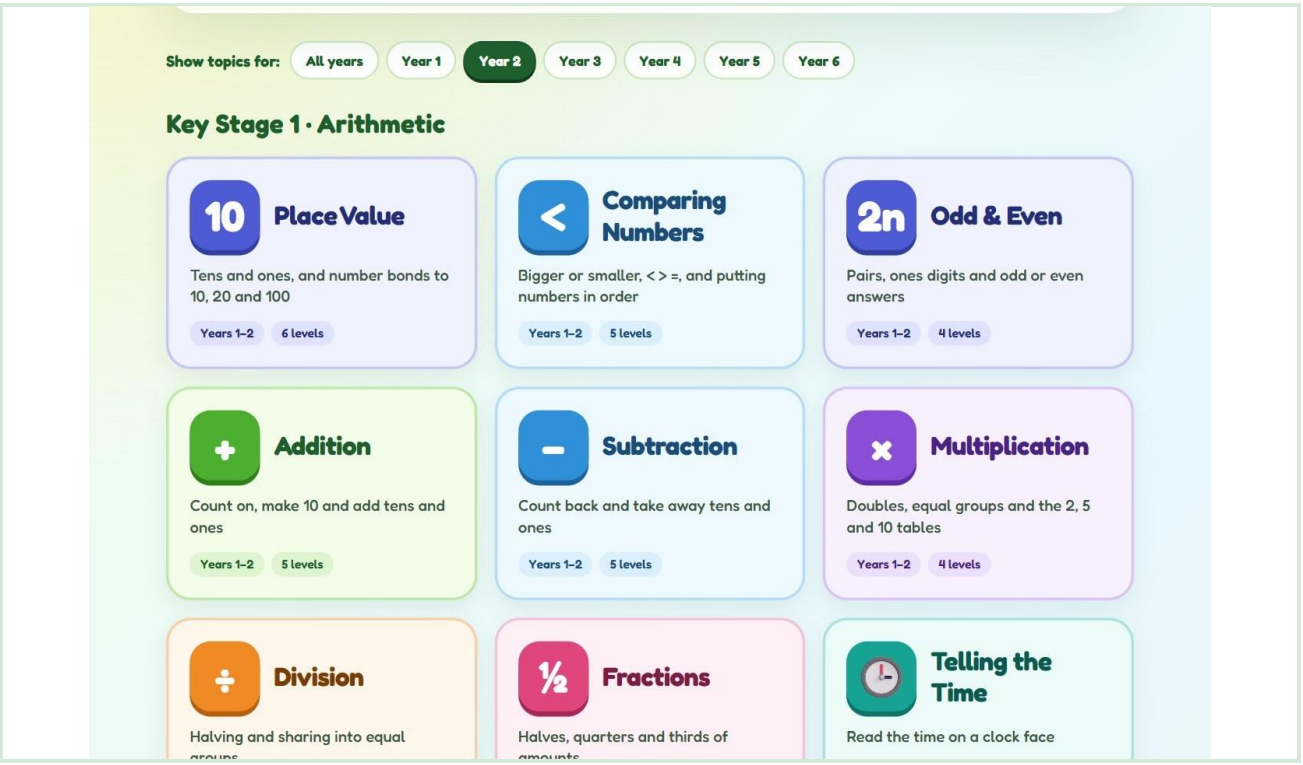


Eclipse's tip

Not sure where to start? Press your year group's button on the home page to see just the activities for your year. Inside each activity, Level 1 is always the easiest.

Choosing your year group

There are lots of activities, so the home page has a row of year buttons under the welcome box. Press your year group to see only the activities for that year.



Year 2 is picked, so the home page only shows activities for Year 2.

- **All years** shows every activity. This is how the home page starts.
- Press a **Year** button to pick it. Press it again to turn it off.
- You can pick more than one year. For example, pick Year 3 and Year 4 to see everything for both.
- Eclipse remembers your choice on this device, so it's still set next time you visit.

Each activity card also shows the years it's for, such as **Years 3–5**. Activities often cover more than one year, with the easier levels for the younger years.



Good to know

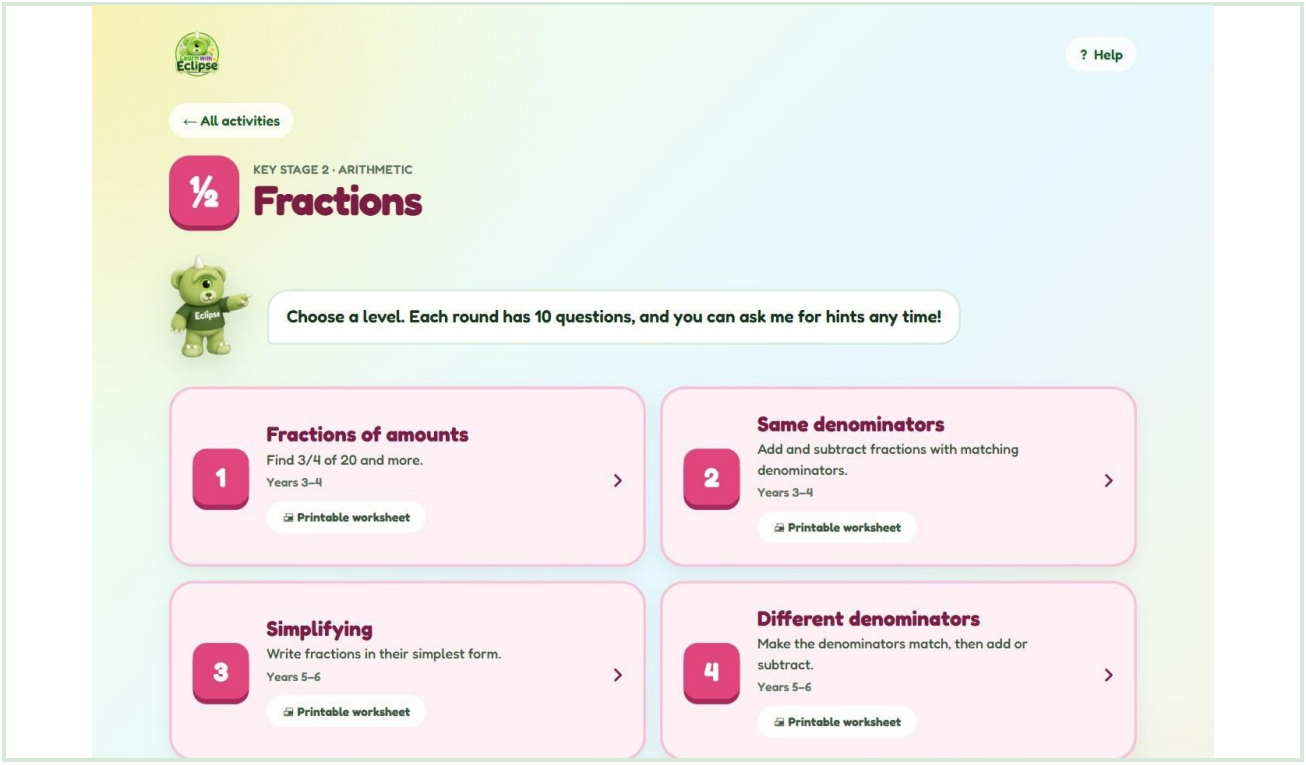
Year groups follow the National Curriculum for England. If an activity feels too easy or too hard, try the year above or below.

SECTION 3

Choosing a level



Each activity has between 3 and 8 levels. They get harder as the numbers go up, so start at Level 1 and work your way through.



The levels page for Fractions.

Each level card shows:

- the **level number and name**, with a short description of the questions,
- the **year group** the level is for, such as Year 4,
- your **best score and stars** for that level (once you've played it), and
- a **Printable worksheet** button (see Printable worksheets).

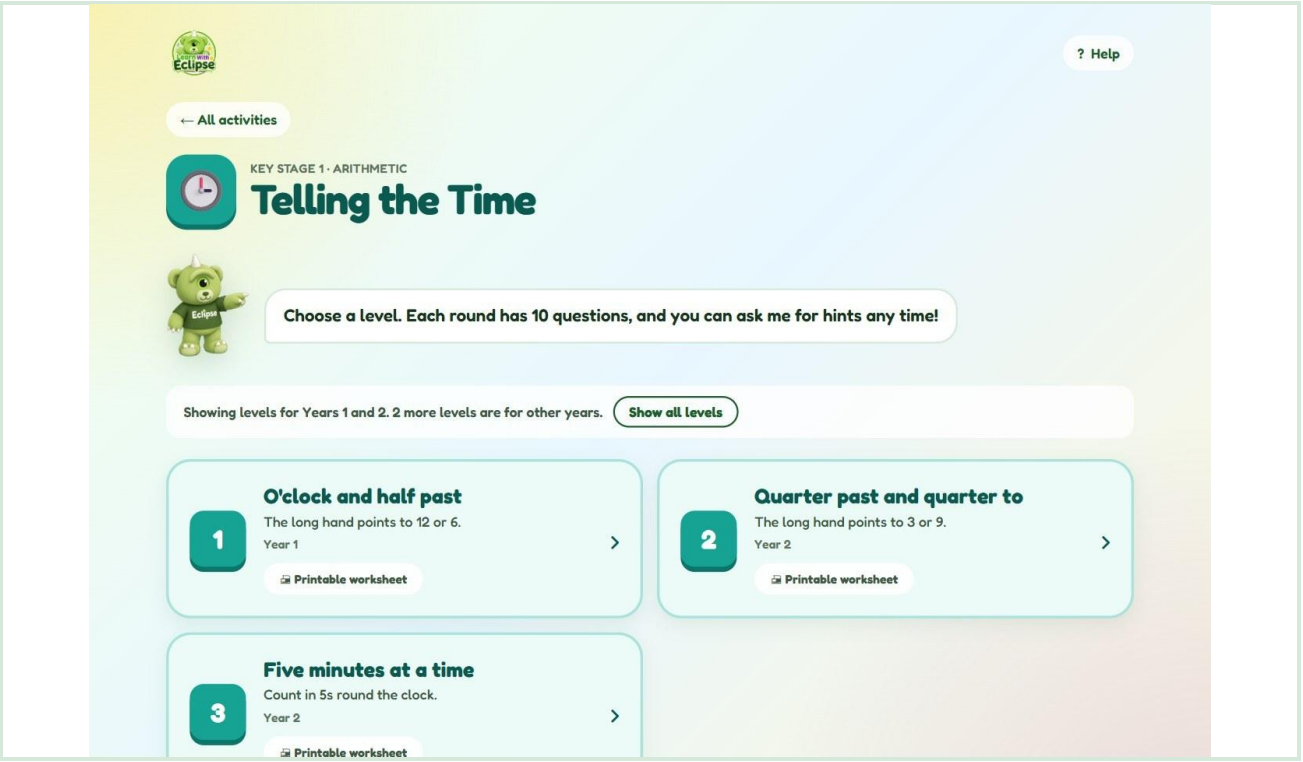
Click or tap anywhere else on the card to start practising. To go back to the home page, use the **← All activities** button at the top.



Good to know
If you have saved questions for this activity, a yellow **Try your saved questions again** card appears under the levels. See Trying tricky questions again.

Levels for your year group

If you picked year groups on the home page, an activity only shows the levels for those years. A line above the levels says how many more there are for other years.



Telling the Time with Years 1 and 2 picked. The Year 3 levels are tucked away.

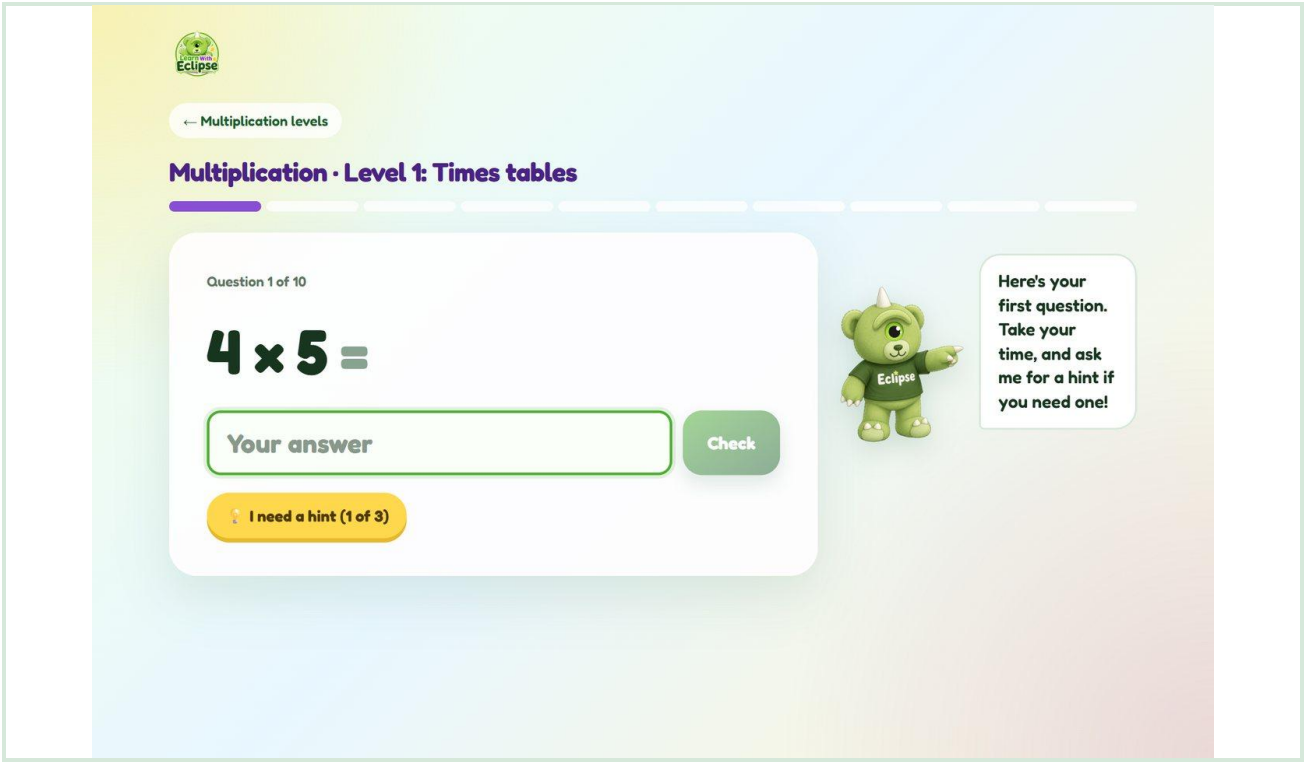
Press **Show all levels** to see every level in the activity, or **Just Years 1 and 2** to hide the others again. If none of an activity's levels are for the years you picked, all of them are shown.

SECTION 4

Practising: answering questions



A practice round has **10 questions**. The question appears in a big white card, with Eclipse beside it (or above it on a phone).



A question. The coloured bar at the top shows how far through the round you are.

How to answer

1. Read the question. Some questions have a picture, such as a clock, a shape or a chart.
2. Type your answer in the box. The grey text in the box shows the kind of answer that's expected, such as **e.g. 3/4** or **e.g. 12 r 3**.
3. Press **Check**, or press the **Enter** key.
4. Eclipse tells you how you did. Press **Next question →** to move on.

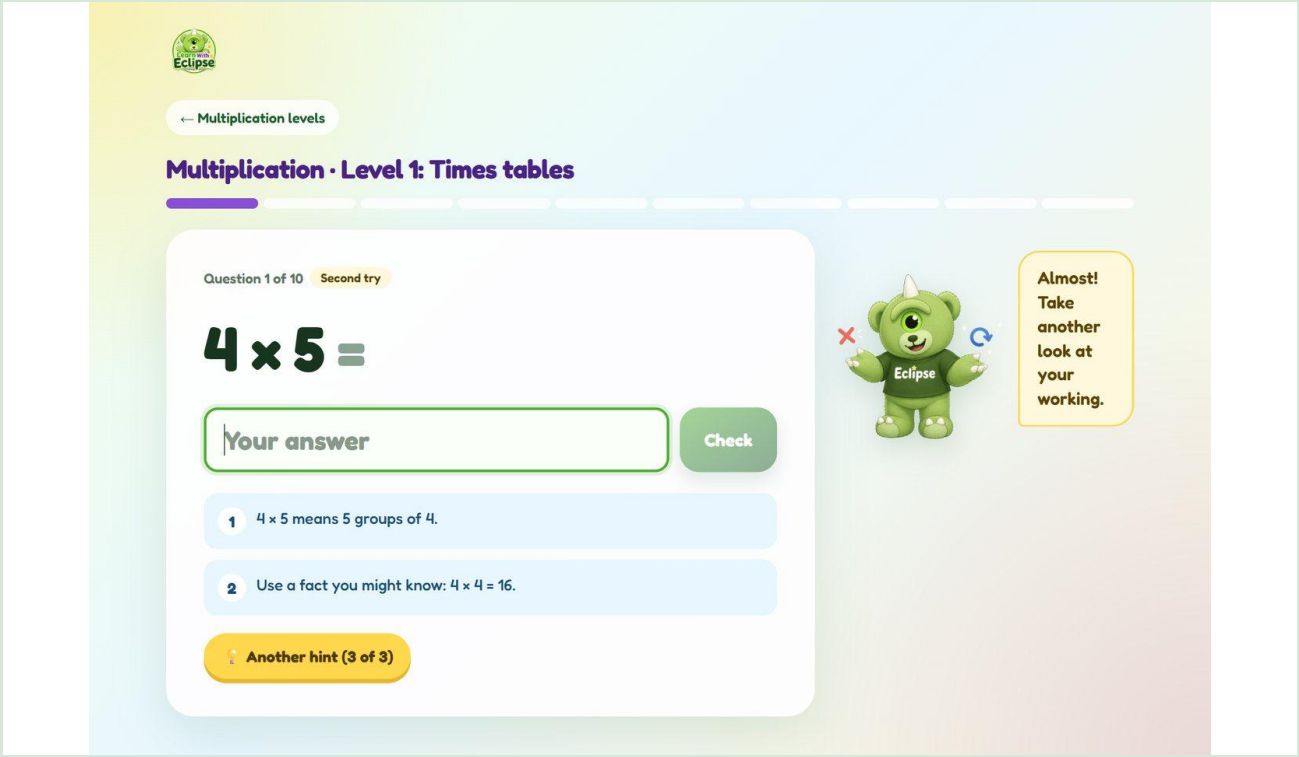
The progress bar

The bar at the top of the page has one segment for each question:

Colour	Meaning
Purple	The question you're answering now.
Green	Answered correctly (first or second try).
Yellow	Eclipse showed you how to solve it. It's saved for you to try again.
White	Still to come.

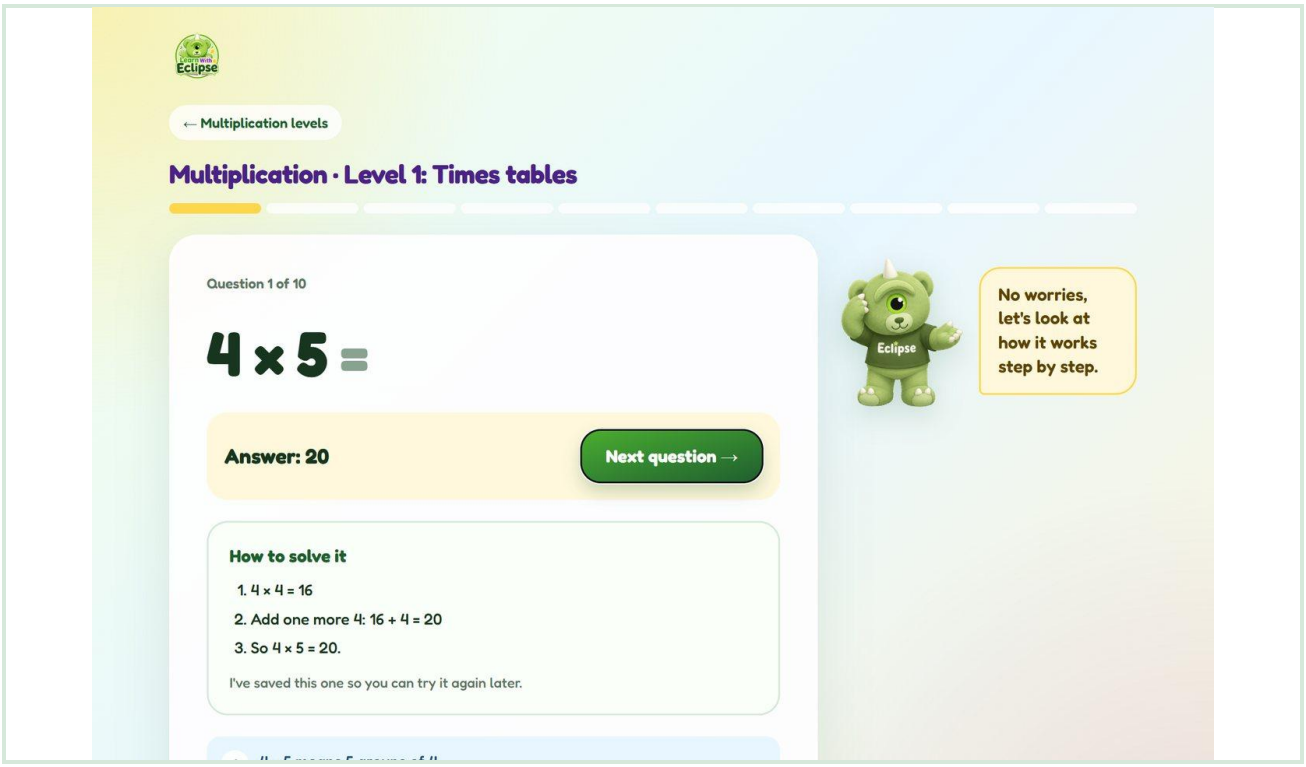
Two tries for every question

If your first answer isn't right, Eclipse says so kindly and you get a **second try**. A small **Second try** label appears next to the question number.

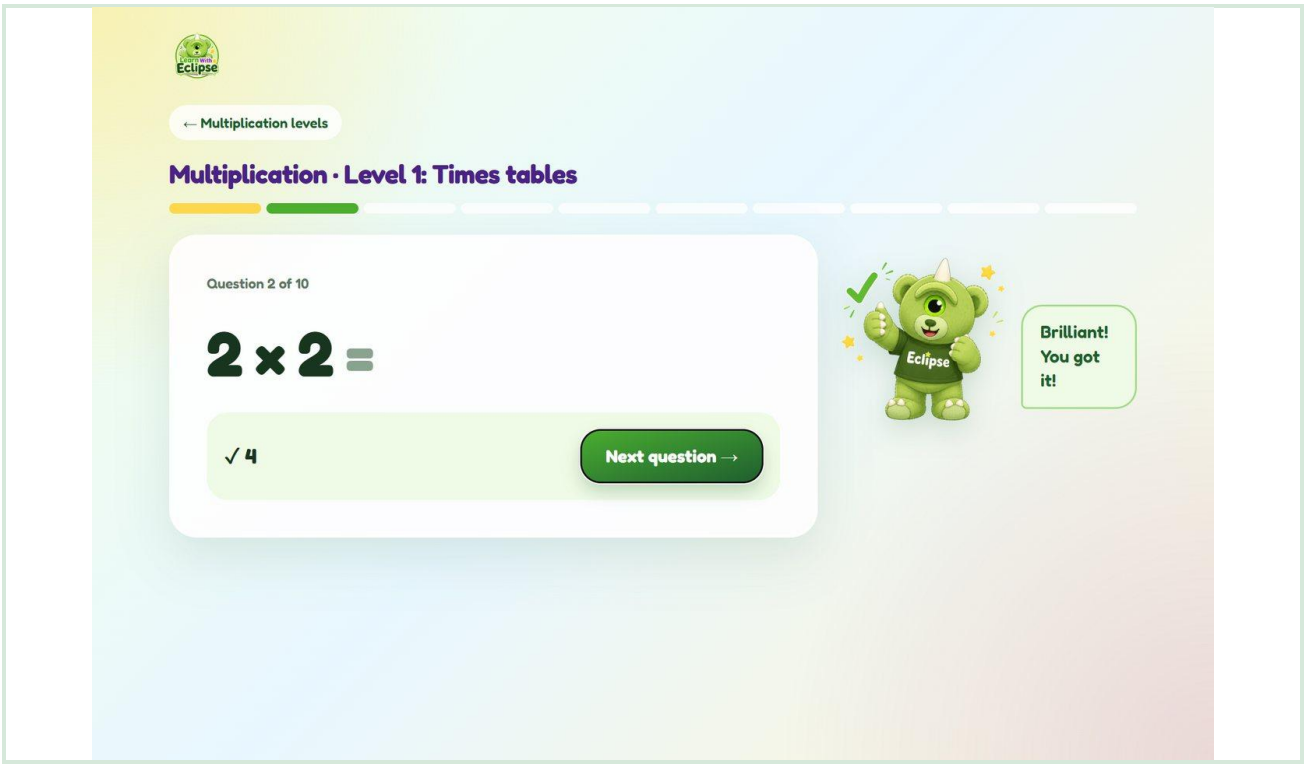


After a first wrong answer, Eclipse encourages you to have another go.

If the second try isn't right either, Eclipse shows the answer and a step-by-step **How to solve it** explanation. Read it carefully: it shows you the method, so you'll know how to do the next one. Eclipse also saves the question so you can try it again later.



The worked solution, shown after two tries.



A correct answer! Eclipse celebrates, and the progress bar segment turns green.



Eclipse's tip

Getting it right on the second try still counts as correct, so it's always worth having another go.

SECTION 5

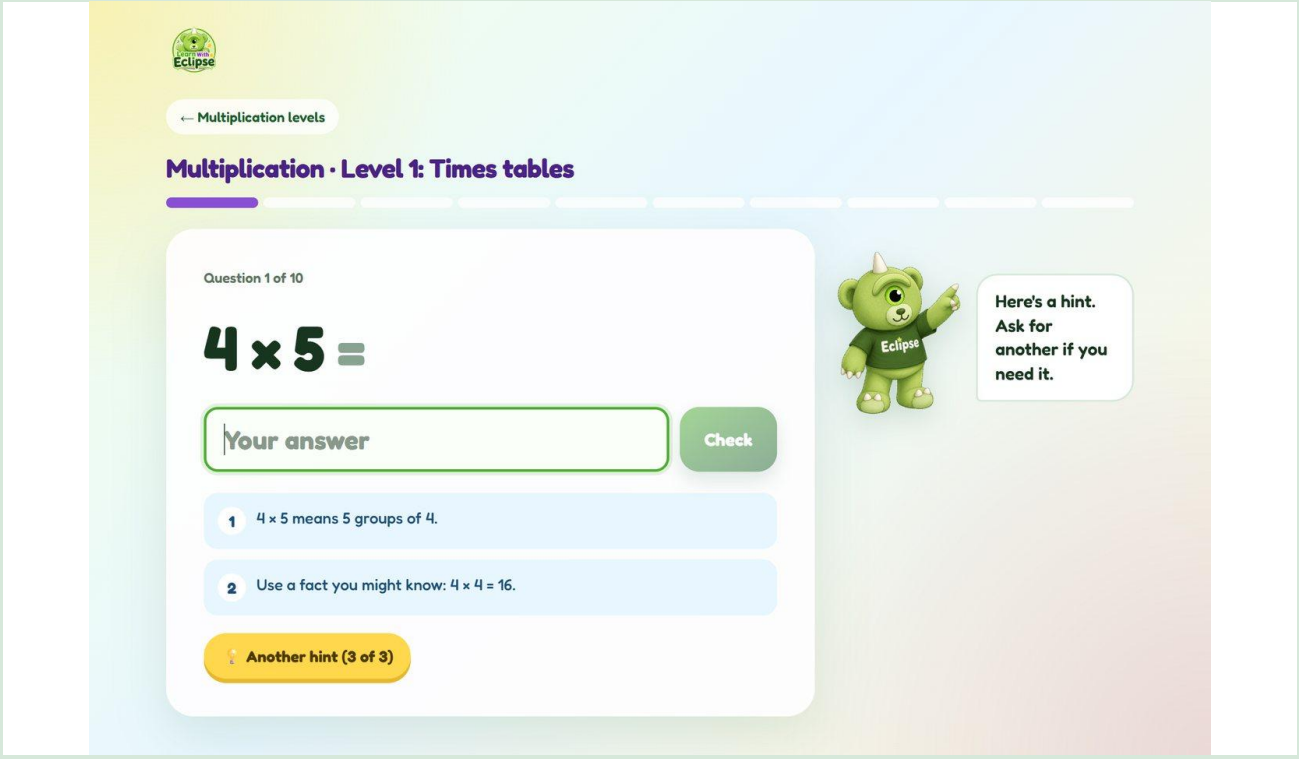
Getting help from Eclipse



Stuck? Press the yellow **I need a hint** button under the answer box. Every question has **three hints**, and each one gives a little more help than the last:

- **Hint 1** reminds you what the question is asking.
- **Hint 2** suggests a method or a fact you might already know.
- **Hint 3** walks you most of the way to the answer.

After the first hint, the button changes to **Another hint (2 of 3)**. The hints stay on screen, numbered, until you move to the next question.



Two hints shown, with a third still available.



Eclipse's tip
Using hints doesn't lower your score. Hints are there to help you learn, so use them whenever you need to.

SECTION 6

How to type your answers



Eclipse is good at understanding answers written in different ways. Here's how to type each kind of answer:

Kind of answer	Type it like this	Good to know
Whole numbers	1250 or 1,250	Commas between thousands are fine.
Decimals	3.75	Use a full stop for the decimal point.
Negative numbers	-4	Use the minus or hyphen key.
Money	£3.50, 3.50 or 350p	You can answer in pounds or in pence.
Measures	24 or 24 cm²	Units like cm, cm², ml, kg, °C and ° are optional.
Fractions	3/4	Use the / key. Give the simplest form.
Mixed numbers	1 1/2	A space between the whole number and the fraction.
Remainders	12 r 3	The answer, then r, then the remainder.
Times	3:45 or quarter to 4	Digits with a colon, or the time in words.
24-hour times	15:45	Use a colon and the 24-hour clock.
Words	acute, hexagon, yes	Just one word. Capital letters don't matter.
Coordinates	(3, 5)	x first, then y, with a comma between them.
Comparisons	<, > or =	Type one sign.
Equations	8 or x = 8	Either the number or the full x = form.

Friendly reminders that don't cost a try

Sometimes your answer is nearly right but written in a way Eclipse can't mark yet. Eclipse gives you a reminder and **you don't lose a try**:

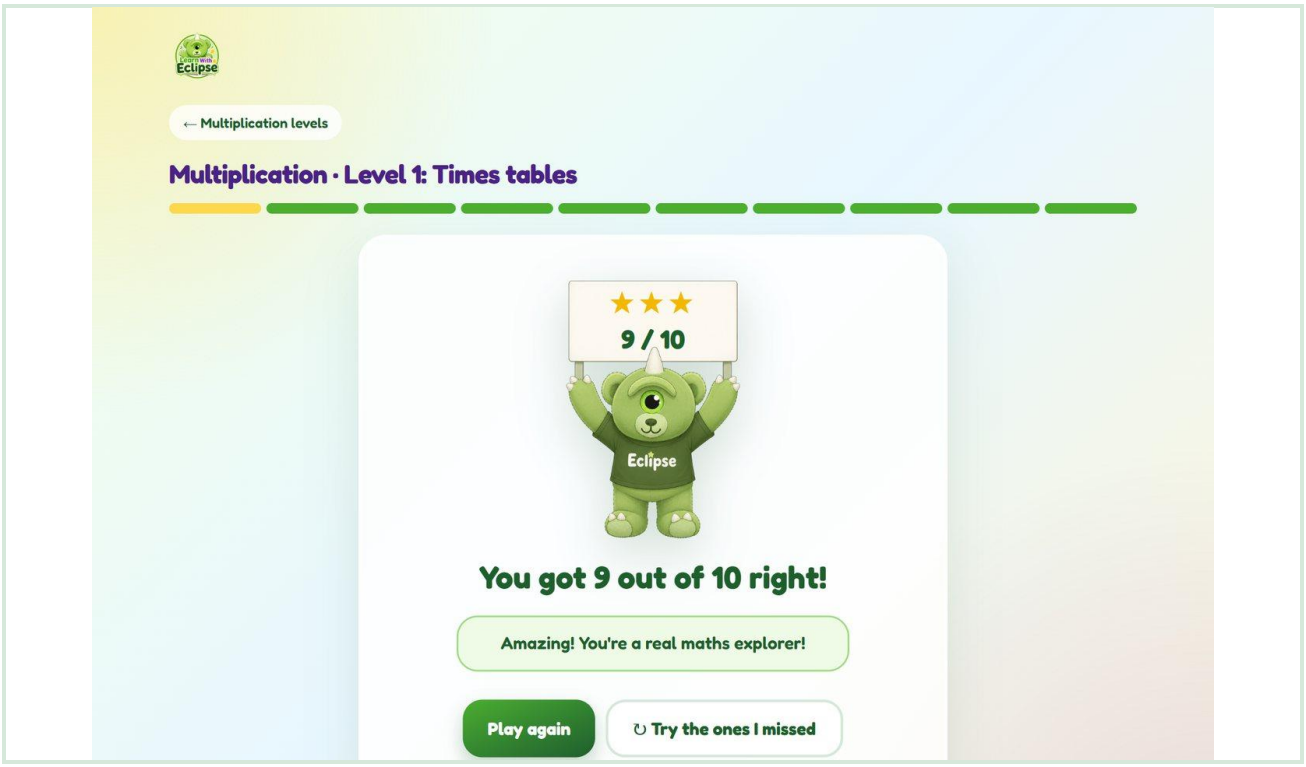
- **Not in its simplest form:** for example, 4/8 when the answer is 1/2. Eclipse says it's the right amount and asks you to simplify it.
- **Not in the right format:** for example, typing letters when a number is needed. Eclipse explains how to type that kind of answer.

SECTION 7

Finishing a round



After the last question, press **See my results**. Eclipse holds up a sign with your score and your stars.



The results screen.

How stars work

Stars	Score needed	Example (10 questions)
★★★	90% or more	9 or 10 correct
★★	70% or more	7 or 8 correct
★	40% or more	4, 5 or 6 correct
No stars yet	Less than 40%	3 or fewer correct. Keep practising!

Your **best score** for each level is remembered and shown on the levels page. A level counts as **passed** on the home page when your best score earns 2 stars or more.

What next?

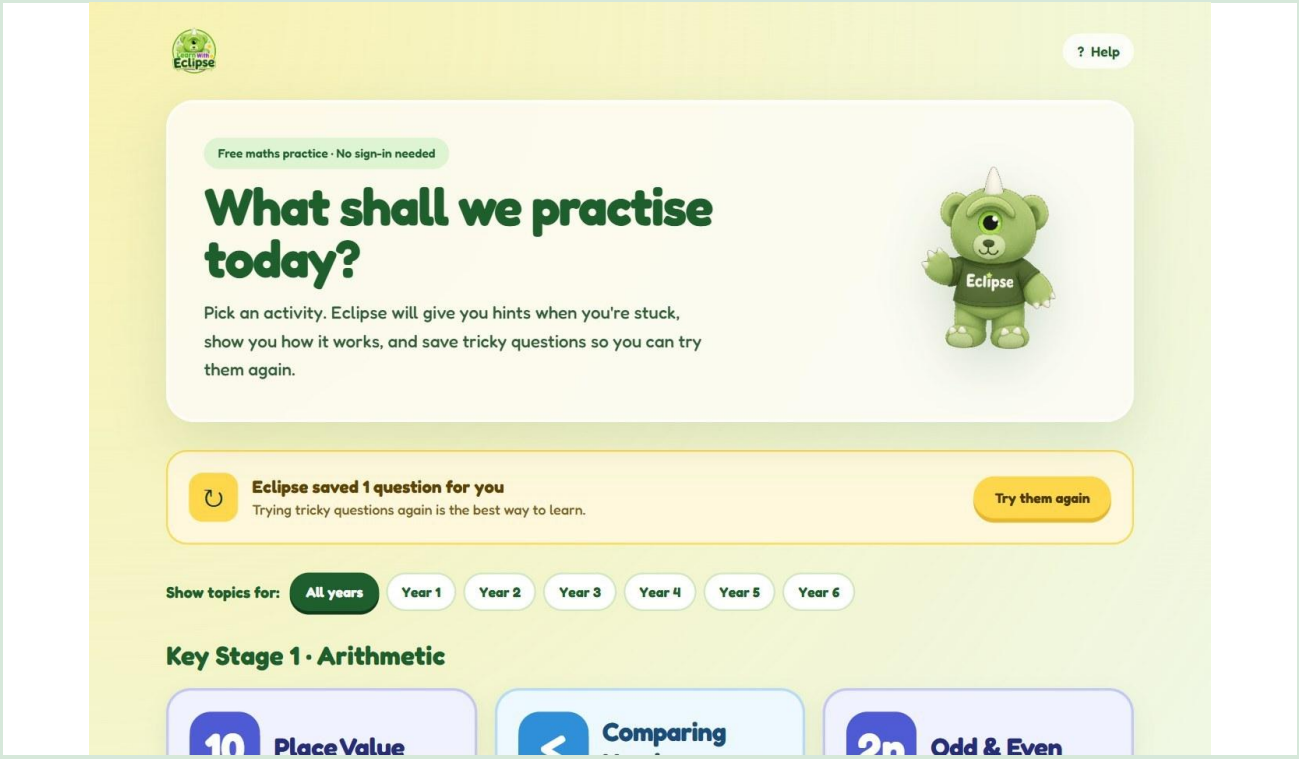
- **Play again** starts a new round of the same level, with new questions.
- **↻ Try the ones I missed** plays the questions you needed help with (shown when you missed any).
- The last button takes you back to the activity's levels.

SECTION 8

Trying tricky questions again



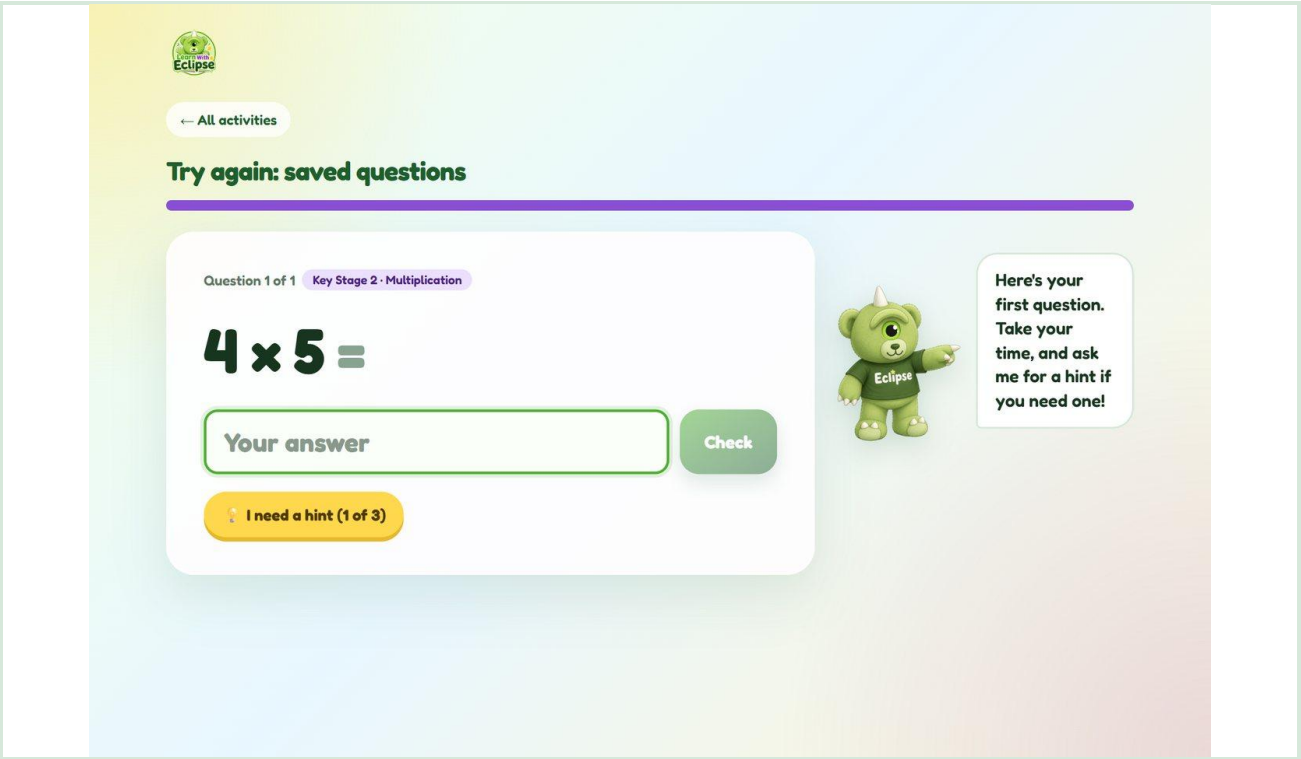
Whenever Eclipse shows you how to solve a question, it's saved. Trying those questions again a little later is one of the best ways to learn.



When you have saved questions, a yellow card appears at the top of the home page.

There are three ways to try saved questions:

- **From the home page:** press **Try them again** on the yellow card. This mixes saved questions from every activity.
- **From an activity's levels page:** press **Go** on the yellow card to try only that activity's saved questions.
- **From the results screen:** press **↻ Try the ones I missed**.



A saved-question round. The label shows which activity each question came from.

Saved-question rounds work like normal rounds, with hints and two tries, and up to 10 questions at a time. **When you answer a saved question correctly, it's cleared.** If you have more than 10 saved, press **Keep going** at the end for the next batch.

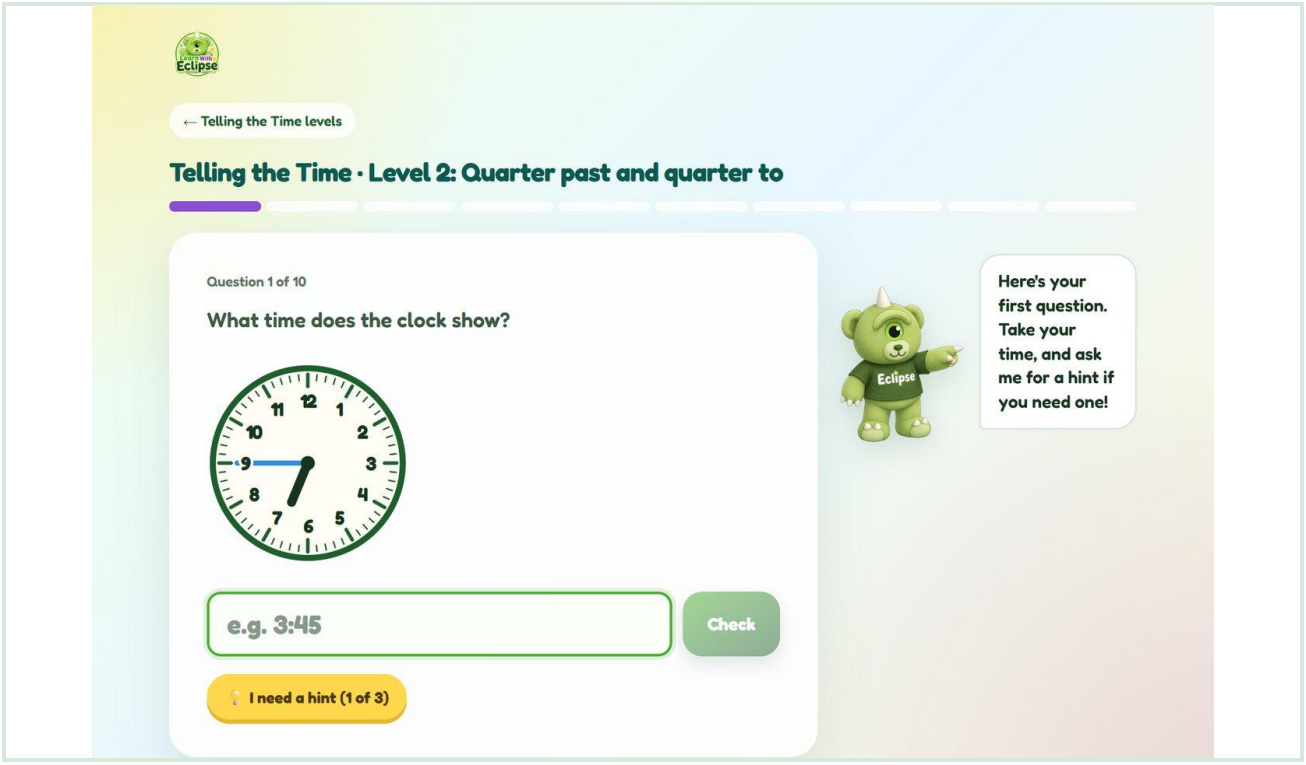
Good to know
Up to 60 questions can be saved. If more are added, the oldest are removed first.

SECTION 9

Questions with pictures



Lots of questions come with a picture to read before you answer. All of them are drawn on screen and print clearly on worksheets.



A Telling the Time question with an analogue clock.

Picture	Used in
Clocks (including Roman numerals)	Telling the Time, Measurement
Fraction shapes, bars and counters	Fractions of Shapes, Fractions
Coins and notes	Coins, Money
Number lines, rulers, jugs, scales, thermometers	Number Lines, Reading Scales, Measures
Rectangles, compound shapes and triangles with labels	Area & Perimeter
Angles, protractors and polygons	Angles, Shapes & Symmetry, 2D Shapes
Bar charts, line graphs, pictograms, tally charts, pie charts and tables	Statistics, Pie Charts & Tables, Tally Charts & Pictograms
Coordinate and position grids	Coordinates, Position & Direction
Cubes, cuboids, nets and circles	Volume & 3D Shapes, 3D Shapes
Venn and Carroll diagrams	Venn & Carroll Diagrams



Eclipse's tip

When a question has a box like □, it means a missing number. Work out what goes in the box and type just that number.

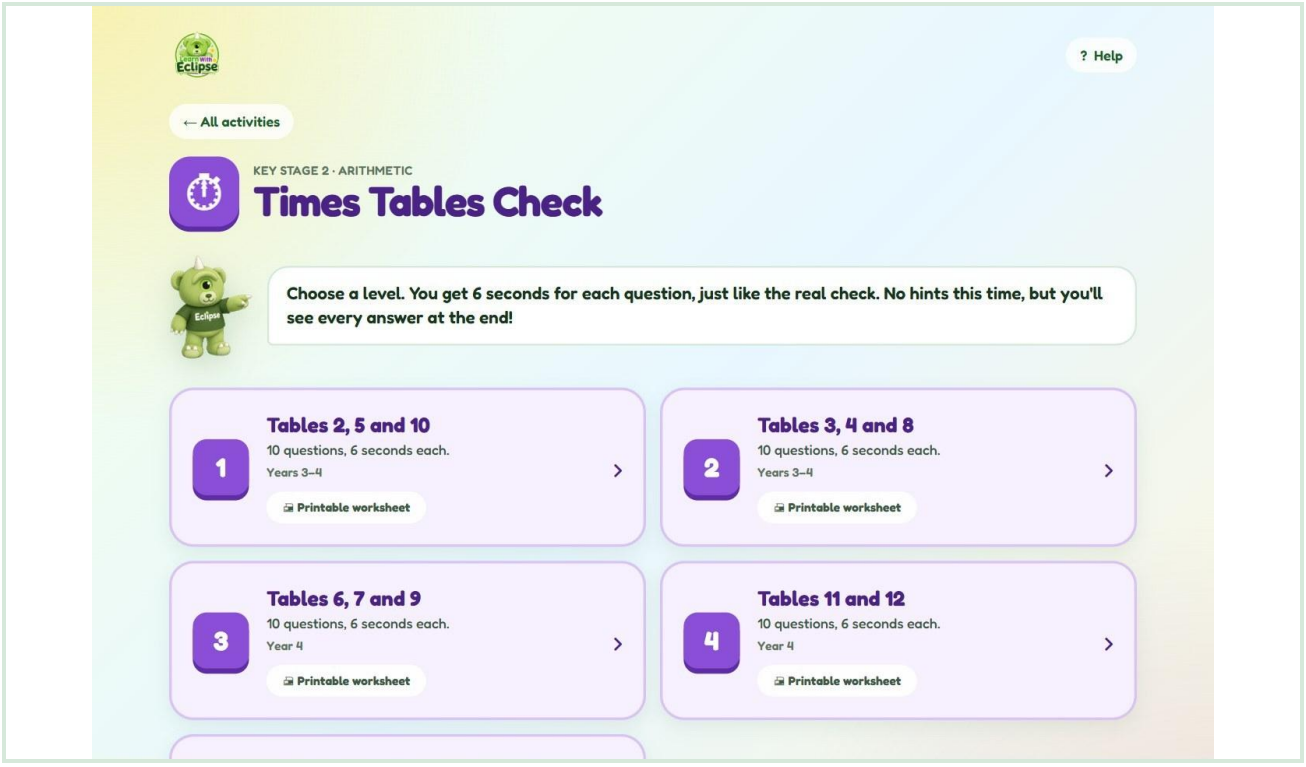
SECTION 10

Timed checks

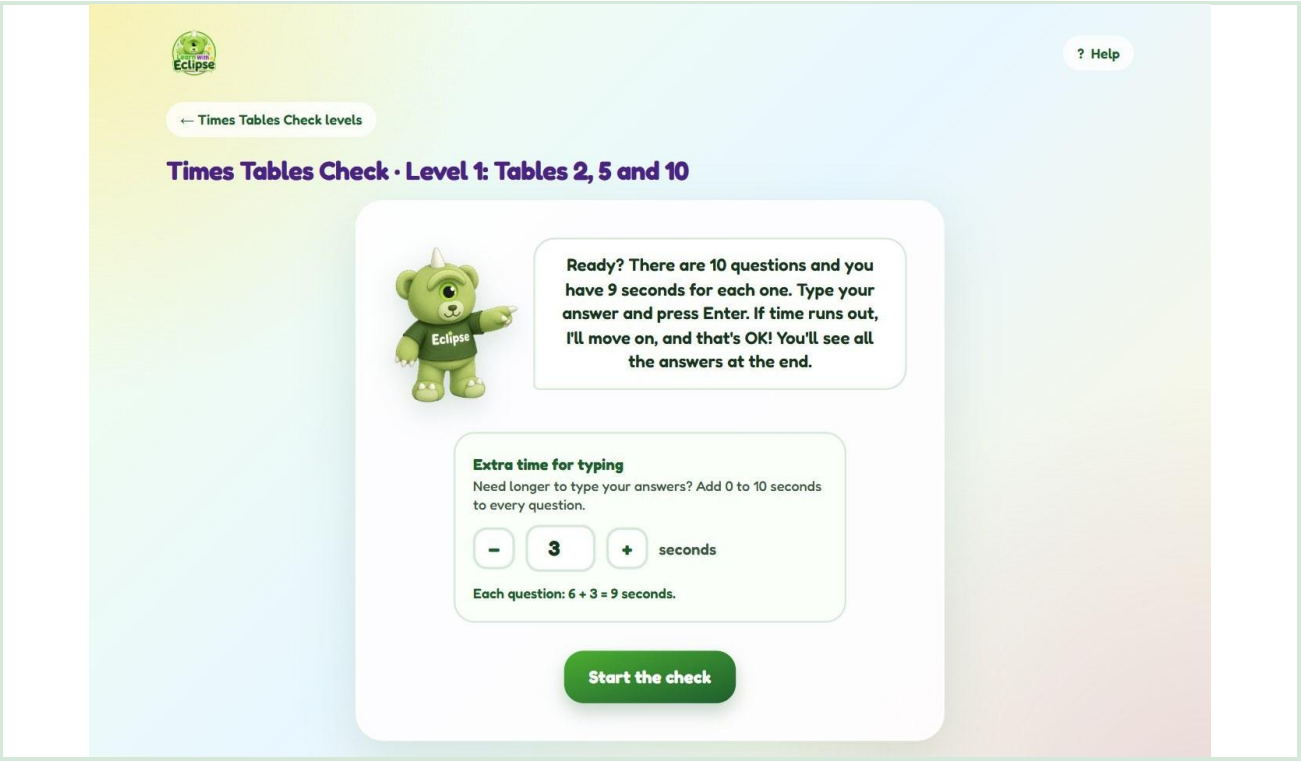


Some levels are timed, to help you get quick at number facts and to practise for real tests like the Year 4 Multiplication Tables Check. Timed levels work differently from normal practice:

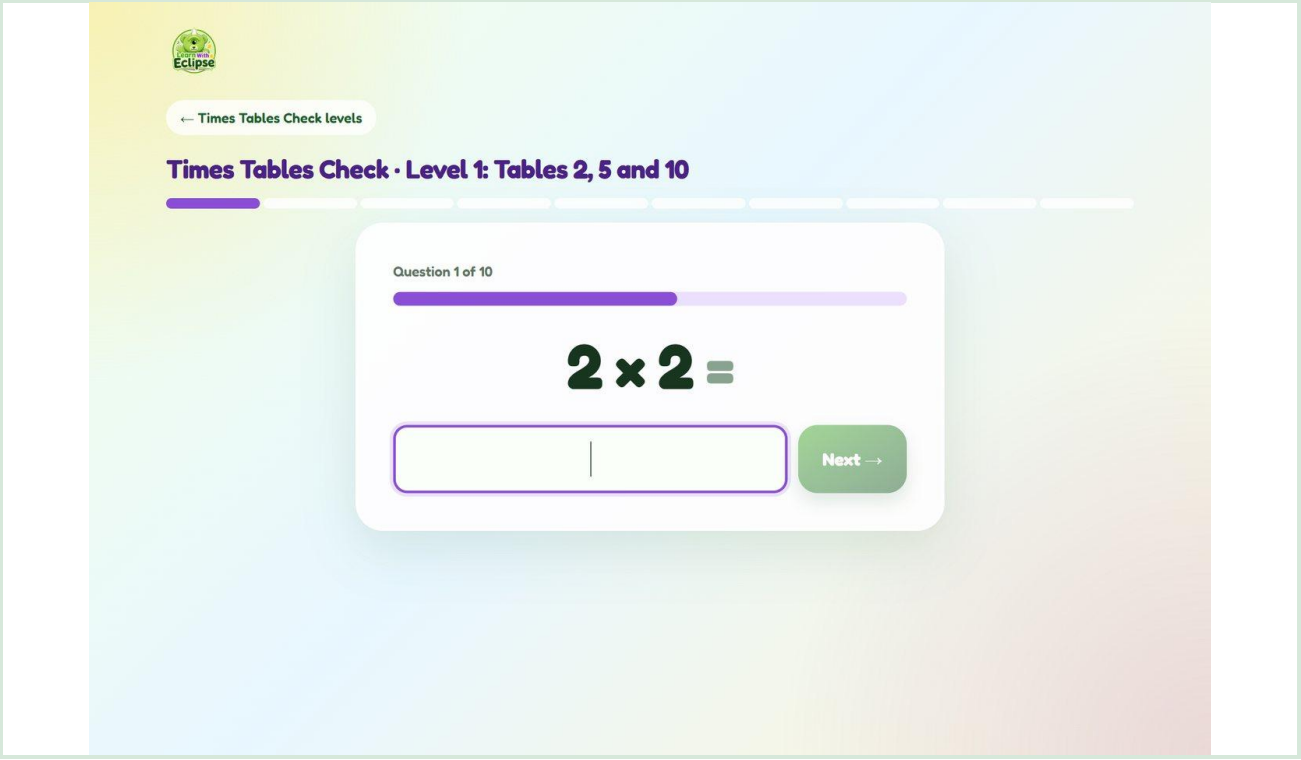
- Each question has a **countdown bar**. When it runs out, Eclipse moves on to the next question.
- You get **one try** per question, and there are **no hints**.
- Type your answer and press **Enter** (or **Next →**) to move on straight away.
- You see **all the answers at the end**, including the ones you missed.



The Times Tables Check levels. Eclipse explains how the timed check works.



Before a timed check starts, Eclipse tells you how many questions there are and how long you have. You can add extra time for typing here too.



A timed question. The purple bar under the question number is the countdown.

At the end you see your score and stars, plus a **Ones to practise** list showing each missed question, the right answer and what you wrote. Missed questions are saved, so **↻ Practise the ones I missed** lets you try them again as a normal round, with hints and no clock.

Extra time for typing

Typing an answer takes time, especially on a tablet or for anyone who finds typing harder. Before a timed check starts, you can add **extra time for typing** to every question:

- Press **–** or **+**, or type a number in the box. You can add 0 to 10 seconds, in whole seconds.
- Eclipse shows the new time for each question, such as **6 + 3 = 9 seconds**, and the countdown bar runs for that long.
- It starts at 0, so timed checks work just like the real tests until you change it.
- Eclipse remembers your choice on this device and uses it for every timed level.



Good to know

The real Multiplication Tables Check gives 6 seconds for each question. As typing gets quicker, try lowering the extra time a second at a time.

Which levels are timed?

The times below don't include any extra time for typing.

Activity	Level	Questions	Seconds each
Number Bond Drills	1: Bonds to 10	10	6
Number Bond Drills	2: Bonds to 20	10	6
Number Bond Drills	3: Bonds to 100 in 5s and 10s	10	8
Number Bond Drills	4: Any bond to 100	10	10
Times Tables Check	1: Tables 2, 5 and 10	10	6
Times Tables Check	2: Tables 3, 4 and 8	10	6
Times Tables Check	3: Tables 6, 7 and 9	10	6
Times Tables Check	4: Tables 11 and 12	10	6
Times Tables Check	5: The full check	25	6
Division Facts Check	1: ÷ 2, 5 and 10	10	6
Division Facts Check	2: ÷ 3, 4 and 8	10	6
Division Facts Check	3: ÷ 6, 7 and 9	10	6
Division Facts Check	4: ÷ 11 and 12	10	6
Division Facts Check	5: All the division facts	25	6
Mental Maths	1: Adding and taking away	10	12
Mental Maths	2: × and ÷ by 10, 100 and 1000	10	10
Mental Maths	3: Doubles and halves	10	10
Mental Maths	4: Near multiples	10	12
Mental Maths	5: Tables with tens	10	10

Activity	Level	Questions	Seconds each
Mental Maths	6: Mixed round	20	12
SATs Practice	3: Timed arithmetic	20	50



Eclipse's tip

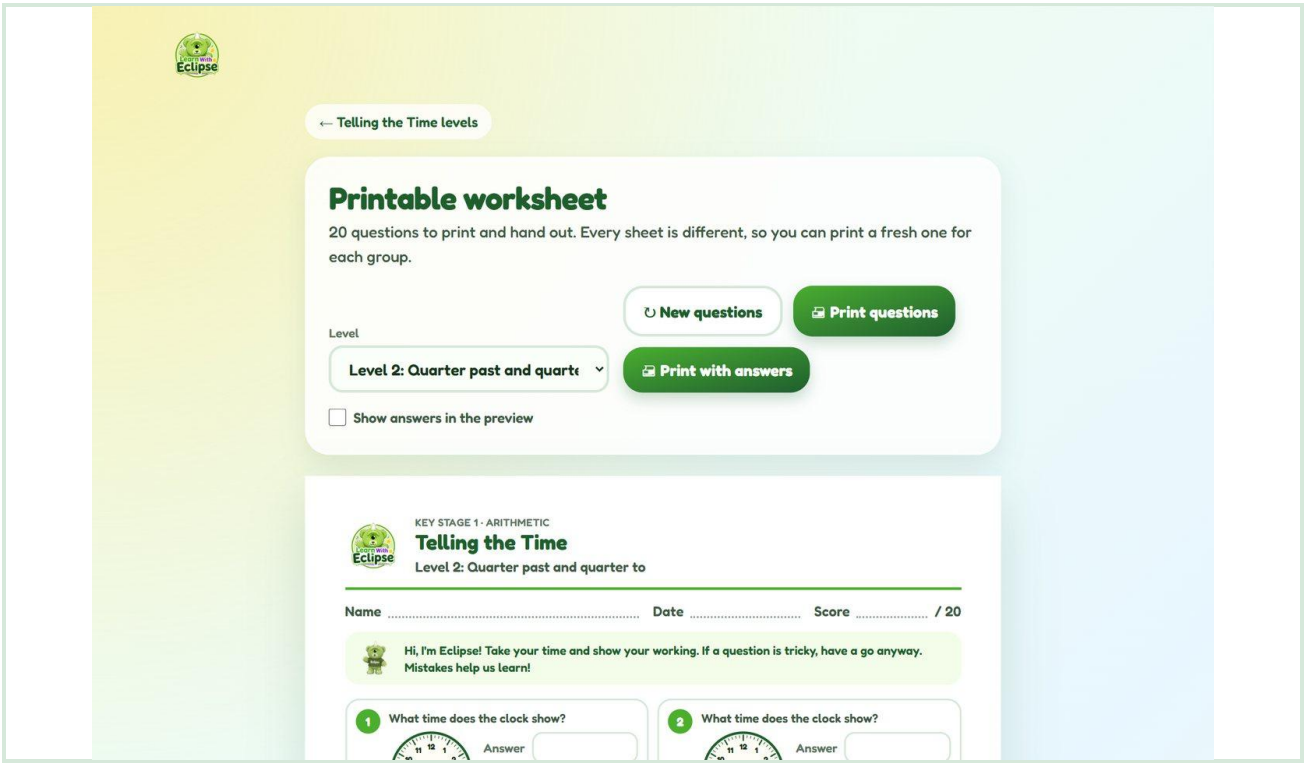
Don't worry if the clock runs out. That's OK! Speed comes with practice, and every missed question is saved for you to learn.

SECTION 11 FOR GROWN-UPS

Printable worksheets



Every level has a printable worksheet, made for teachers, tutors and parents who want paper practice. Open one with the **Printable worksheet** button on any level card.

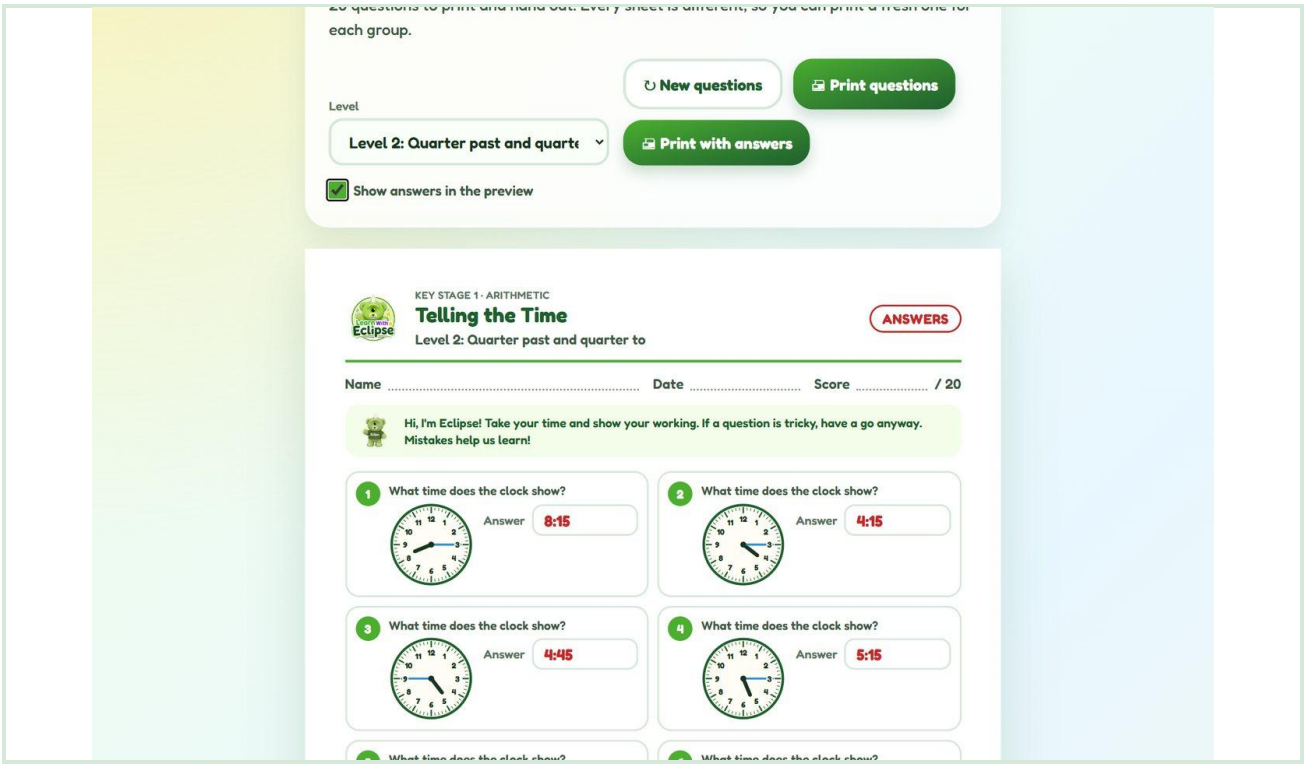


The worksheet page, with the print controls above a preview of the sheet.

Each worksheet has **20 questions on two A4 pages**, with spaces for the child's name, the date and the score. Every sheet is different, so you can print a fresh one for each child or group.

Worksheet controls

Control	What it does
Level	Switch to another level of the same activity.
↻ New questions	Makes a completely new set of 20 questions.
Print questions	Prints the sheet for the child, with empty answer boxes.
Print with answers	Prints the same sheet with the answers filled in, marked ANSWERS, to use as a mark scheme.
Show answers in the preview	Shows or hides the answers on screen without printing.



The preview with answers shown in red.

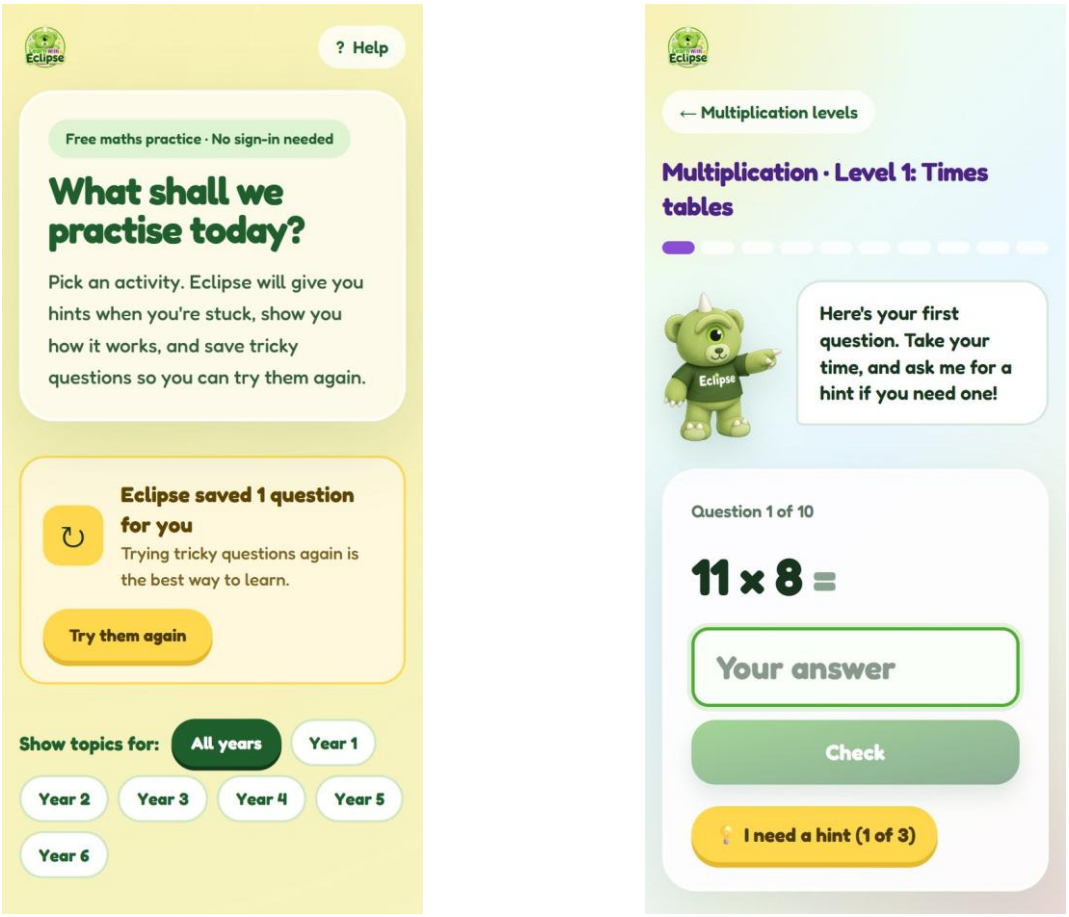
Printing tips

- Print the questions first, then press **Print with answers** for a matching answer sheet. Pressing **New questions** in between would give you a different sheet.
- In the print window, choose **A4** paper and **portrait**. The sheet is already sized to fit.
- The coloured headings and question numbers should print automatically. If they come out blank, turn on **Background graphics** in the print window's extra settings.
- To save a sheet as a file, choose **Save as PDF** (or **Microsoft Print to PDF**) as the printer.

SECTION 12

Using a phone or tablet

Learn With Eclipse works on phones and tablets as well as computers. The page rearranges itself to fit the screen: on a phone, Eclipse appears above the question and the activity cards stack in one column.



The home page and a question on a phone.

On phones and tablets the right keyboard opens for each question, so number answers show the number keypad.

Add Eclipse to your home screen

You can add Learn With Eclipse to your home screen so it opens like an app, with its own icon:

- **iPhone and iPad (Safari):** tap the Share button, then **Add to Home Screen**.
- **Android (Chrome):** tap the ⋮ menu, then **Add to Home screen** or **Install app**.
- **Computer (Chrome or Edge):** click the install icon at the right of the address bar, or open the browser menu and choose **Install Learn With Eclipse**.



Good to know

Even when it's on your home screen, Learn With Eclipse needs an internet connection to work.

SECTION 13 FOR GROWN-UPS

Your progress and privacy



Learn With Eclipse has no accounts. It never asks for a child's name, email address, date of birth or any other personal details.

Where progress is kept

Best scores and saved questions are stored **in the web browser on the device you're using**, not on our servers. This means:

- Progress stays on that device and in that browser. If you switch from a tablet to a laptop, or from Chrome to Safari, you start fresh there.
- On a **shared computer**, everyone using the same browser shares the same progress and saved questions.
- **Private or incognito windows** don't keep progress after the window is closed.
- Clearing your browser's history, cookies or site data deletes the progress.

Starting again

To clear all progress on a device, for example before passing a device to another child, clear the browsing data for the Learn With Eclipse website in your browser's settings. Look for **Cookies and site data** (Chrome and Edge) or **Website data** (Safari).

Safe for children

- No chat, messaging, public profiles or leaderboards.
- No adverts and no in-app purchases.
- No uploads or photos.
- Every question comes from a fixed, curriculum-based set of rules written by people, not open-ended AI.

SECTION 14 FOR GROWN-UPS

Tips for parents and teachers



At home

- **Little and often works best.** One or two rounds a day (about 5 to 10 minutes) helps more than a long session once a week.
- **Start easy.** Begin at Level 1 of an activity, even if it seems simple. Early success builds confidence, and stars are motivating.
- **Celebrate the saved questions.** When the yellow card appears on the home page, treat it as a challenge: "Can you clear them all?"
- **Read the worked solutions together.** The "How to solve it" steps use the same methods taught in school, such as partitioning, column methods and the bus stop method.
- **Encourage hints.** Hints don't affect the score, so children shouldn't feel they are cheating by using them.

In the classroom

- **Starters and plenaries:** put a level on the board and answer questions as a class, using the hints to talk through methods.
- **Worksheets:** print a fresh sheet per group so neighbours have different questions, and print the matching answer sheet for marking.
- **Test practice:** use the Times Tables Check in Year 4 and the SATs Practice activity in Year 6 to build familiarity with the real formats.
- **Shared devices:** progress is per browser, so on class devices treat scores as a session record rather than a child's long-term history.

Matching activities to year groups

The quickest way is to press a year button on the home page (see Choosing your year group). It shows the activities for that year and hides the levels meant for other years. If you'd rather browse, these are good places to start:

Year group	Good places to start
Year 1	KS1 Place Value, Addition and Subtraction (Level 1), Odd & Even, Days & Months, 2D Shapes
Year 2	KS1 Multiplication and Division, Fractions, Coins, Telling the Time, Tally Charts & Pictograms, Number Bond Drills
Years 3 and 4	KS2 Addition, Subtraction, Multiplication, Times Tables Check, Place Value, Measurement, Statistics
Year 5	Fractions, Decimals, Factors & Primes, Area & Perimeter, Angles, Mental Maths

Year group	Good places to start
Year 6	Long Division, More Fractions, Percentages, Ratio & Proportion, Algebra, SATs Practice

SECTION 15

Troubleshooting and questions



A message says "Rejoining the server..."

The website keeps a live connection while you practise. If the connection drops, for example on weak Wi-Fi or after the device has been asleep, it tries to reconnect by itself. If it says "Failed to rejoin", press **Retry**, or reload the page. You may need to restart the current round, but your best scores and saved questions are kept.

My answer was right but Eclipse said it wasn't.

Check the format in How to type your answers. Common slips are a fraction that isn't simplified, a remainder typed as a decimal, or a time typed without a colon. If you're sure the answer and format are right, please tell us which activity and level it was.

The Check button looks faded.

It stays faded until you type an answer. Type in the box and it becomes active.

My stars and saved questions have disappeared.

Progress is stored in the browser. It disappears if browsing data is cleared, if you used a private or incognito window, or if you're on a different device or browser. See Your progress and privacy.

Can two children use the same device?

Yes, but they will share progress and saved questions. For separate progress, each child can use a different browser or a separate browser profile.

The worksheet prints on more than two pages.

In the print window, check the paper size is A4, the scale is 100% (or Default) and the margins are Default. Turn off headers and footers if your browser adds them.

Do I need to pay or sign in?

No. Learn With Eclipse is free and needs no account.

Does it work offline?

No. It needs an internet connection, because questions are made and marked on the website's server.

Some levels are missing from an activity.

You probably picked year groups on the home page, so only the levels for those years are shown. Press **Show all levels** on the levels page, or press **All years** on the home page.

Where can I find this guide?

Press **Help** at the top of any page on the website. The help page has a **Download the PDF guide** button if you'd like a copy to print or keep.

The clock is too quick for me to type my answer.

Add some **extra time for typing** on the screen before a timed check starts. You can add up to 10 seconds to each question. See Timed checks.

APPENDIX A

All activities and levels

Learn With Eclipse has 58 activities and 275 levels. Levels marked ⏱ are timed. The Year column shows the year group each level is for.

Key Stage 1 · Arithmetic

Activity	Level	What you'll practise	Year
Place Value	1. Tens and ones	What number is 4 tens and 7 ones?	Years 1–2
	2. Partitioning	Split numbers, like 63 = 60 + □.	Year 2
	3. Number bonds to 10 and 20	Puzzles like 7 + □ = 10.	Year 1
	4. 10 more and 10 less	Only the tens digit changes.	Year 2
	5. Number bonds to 100	Puzzles like 35 + □ = 100.	Year 2
	6. Numbers in words	Read forty-seven and write 47.	Years 1–2
Comparing Numbers	1. Bigger or smaller?	Which number is bigger? Look at the tens.	Year 1
	2. Using < and >	Write <, > or = between two numbers.	Year 2
	3. Comparing sums	Work out a sum, then compare.	Year 2
	4. Putting in order	Find the smallest or largest of four numbers.	Years 1–2
	5. One more, ten more	One more, one less, ten more and ten less.	Years 1–2
Odd & Even	1. Odd or even? (to 20)	Can it be shared into pairs?	Years 1–2
	2. Odd or even? (to 100)	Look at the ones digit.	Year 2
	3. Next odd or even number	Count on or back to the next one.	Year 2
	4. Odd and even sums	Is the answer odd or even?	Year 2
Addition	1. Adding within 10	Count on from the bigger number.	Year 1
	2. Adding within 20	Make 10 first, like 8 + 5.	Year 1
	3. Adding ones	Add a single digit to a 2-digit number.	Year 2
	4. Adding tens	Count on in tens, like 34 + 20.	Year 2
	5. Two 2-digit numbers	Add the tens, then the ones.	Year 2
Subtraction	1. Taking away within 10	Count back on your fingers.	Year 1
	2. Taking away within 20	Go back to 10 first, like 13 – 5.	Year 1
	3. Taking away ones	Take a single digit from a 2-digit number.	Year 2
	4. Taking away tens	Count back in tens, like 76 – 30.	Year 2

Activity	Level	What you'll practise	Year
	5. Two 2-digit numbers	Take away the tens, then the ones.	Year 2
Multiplication	1. Doubling	Double numbers up to 20.	Years 1–2
	2. Equal groups	How many in 3 groups of 5?	Years 1–2
	3. 2, 5 and 10 times tables	Count in 2s, 5s and 10s.	Year 2
	4. Word problems	Bags of apples, boxes of pencils and more.	Year 2
Division	1. Halving	Find half of a number.	Years 1–2
	2. Dividing by 2, 5 and 10	How many 5s make 30?	Year 2
	3. Sharing problems	Share things out equally.	Years 1–2
Fractions	1. Halves and quarters	Find 1/2 or 1/4 of a number.	Years 1–2
	2. Thirds and quarters	Find 1/3, 2/4 or 3/4 of a number.	Year 2
	3. Counting in fractions	Count in halves, thirds and quarters.	Year 2
Telling the Time	1. O'clock and half past	The long hand points to 12 or 6.	Year 1
	2. Quarter past and quarter to	The long hand points to 3 or 9.	Year 2
	3. Five minutes at a time	Count in 5s round the clock.	Year 2
	4. Roman numeral clocks	Read clocks marked I to XII.	Year 3
	5. am or pm?	Morning or afternoon? Before or after midday?	Year 3
Days & Months	1. Days of the week	Which day comes before or after?	Year 1
	2. Months of the year	Which month comes next?	Year 1
	3. Yesterday and tomorrow	Count on or back from today.	Year 1
	4. Units of time	Minutes in an hour, days in a week…	Year 2
	5. Days in each month	30 days have September… and leap years.	Year 3
Measures	1. Longer, heavier, more?	Compare two measures in the same unit.	Year 1
	2. Using < and >	Compare measures, including 1 m = 100 cm.	Year 2
	3. Choosing units	cm or m? g or kg? ml or l?	Year 2
	4. Reading scales	Rulers, jugs, weighing scales and thermometers.	Year 2
	5. Measures problems	Add and take away with units.	Year 2
Number Bond Drills	1. Bonds to 10 ⏱	10 questions, 6 seconds each.	Year 1
	2. Bonds to 20 ⏱	10 questions, 6 seconds each.	Year 1

Activity	Level	What you'll practise	Year
	3. Bonds to 100 in 5s and 10s ⏱	10 questions, 8 seconds each.	Year 2
	4. Any bond to 100 ⏱	10 questions, 10 seconds each.	Year 2
Fractions of Shapes	1. Halves and quarters	One part of a shape is shaded.	Year 1
	2. Quarters	1/4, 2/4 and 3/4 of a shape.	Year 2
	3. Thirds	1/3 and 2/3, mixed with halves and quarters.	Year 2
	4. Equal parts	Is the shape really cut into equal parts?	Years 1–2
	5. Fractions of a group	Rows of counters, some shaded.	Year 2
Coins	1. Counting pennies	1p, 2p, 5p and 10p coins.	Year 1
	2. Silver coins	Add 5p, 10p, 20p and 50p coins.	Years 1–2
	3. Pounds	£1 and £2 coins, £5 and £10 notes.	Years 1–2
	4. Change	Count on from the price to the coin.	Year 2
	5. The hidden coin	Work out which coin is missing.	Year 2

Key Stage 1 · Algebra

Activity	Level	What you'll practise	Year
Missing Numbers	1. Adding within 10	Find the missing number, like □ + 3 = 7.	Year 1
	2. Adding and taking away within 20	Puzzles like 15 – □ = 9.	Years 1–2
	3. Numbers up to 100	Tens and ones, like 34 + □ = 64.	Year 2
	4. Equals sign first	Puzzles written the other way round, like 12 = □ + 5.	Years 1–2
Number Patterns	1. Counting in 2s, 5s and 10s	Fill the gap in patterns like 10, 20, □, 40.	Year 1
	2. Counting backwards	Patterns that go down, like 50, 45, 40, □.	Years 1–2
	3. Counting in 3s from any number	Trickier steps that start anywhere.	Year 2

Key Stage 1 · Shapes, Position & Statistics

Activity	Level	What you'll practise	Year
2D Shapes	1. Sides	Count the straight sides.	Year 2
	2. Corners	Count where the sides meet.	Year 2
	3. Naming shapes	Circle, triangle, square, rectangle…	Year 1

Activity	Level	What you'll practise	Year
	4. Lines of symmetry	Does the fold line make two matching halves?	Year 2
3D Shapes	1. Naming 3D shapes	Cube, cuboid, cylinder, cone, sphere…	Year 1
	2. Faces	Count the flat faces, including the hidden ones.	Year 2
	3. Edges	Count where two faces meet.	Year 2
	4. Vertices	Count the corners.	Year 2
	5. What am I?	Read the clues and name the shape.	Year 2
Position & Direction	1. Turning	Quarter, half and three-quarter turns.	Years 1–2
	2. How far did it turn?	Count the quarter turns.	Year 2
	3. Moving on a grid	Follow the moves to find the letter.	Years 1–2
	4. Counting squares	How many squares from the star?	Years 1–2
	5. Robot routes	Turn, then move forward.	Year 2
Tally Charts & Pictograms	1. Reading tally charts	Count the tally marks in 5s.	Year 2
	2. Block diagrams	Count the blocks.	Year 2
	3. How many more?	Compare two rows or columns.	Year 2
	4. Altogether	Add the votes together.	Year 2
	5. Most and least popular	Which got the most? Which got the fewest?	Year 2
	6. Pictograms	Each circle stands for 1.	Year 2
	7. Pictograms with a key	Each circle stands for 2, 5 or 10.	Year 3

Key Stage 2 · Arithmetic

Activity	Level	What you'll practise	Year
Addition	1. Two-digit numbers	Warm up by adding numbers like 47 + 38.	Year 3
	2. Three-digit numbers	Use column addition and carrying.	Year 3
	3. Four-digit numbers	Bigger numbers, same method.	Year 4
	4. Decimals	Line up the decimal points and add.	Year 5
Subtraction	1. Two-digit numbers	Take away numbers like 72 – 29.	Year 3
	2. Three-digit numbers	Practise exchanging between columns.	Year 3
	3. Four-digit numbers	Bigger numbers, same method.	Year 4
	4. Decimals	Line up the decimal points and subtract.	Year 5
Multiplication	1. Times tables	All the facts up to 12 × 12.	Years 3–4

Activity	Level	What you'll practise	Year
	2. 2-digit × 1-digit	Split the number into tens and ones.	Year 3
	3. 3- and 4-digit × 1-digit	Short multiplication with bigger numbers.	Years 4–5
	4. 2-digit × 2-digit	Long multiplication, one part at a time.	Year 5
	5. Long multiplication	SATs questions like 2,346 × 37.	Years 5–6
Division	1. Division facts	Use your times tables backwards.	Years 3–4
	2. Short division	The bus stop method, no remainders.	Years 4–5
	3. Remainders	Short division with something left over.	Years 4–5
	4. Dividing by 10, 100 and 1000	Move the digits to the right.	Years 4–5
	5. Decimal answers	Keep dividing past the point, like 435 ÷ 4 = 108.75.	Year 6
Fractions	1. Fractions of amounts	Find 3/4 of 20 and more.	Years 3–4
	2. Same denominators	Add and subtract fractions with matching denominators.	Years 3–4
	3. Simplifying	Write fractions in their simplest form.	Years 5–6
	4. Different denominators	Make the denominators match, then add or subtract.	Years 5–6
	5. Multiplying by a whole number	Fractions times whole numbers.	Year 5
	6. Equivalent fractions	Find the missing number in 2/3 = □/12.	Years 3–4
	7. Improper fractions and mixed numbers	17/5 = 3 2/5, and back again.	Year 5
Times Tables Check	1. Tables 2, 5 and 10 ⏱	10 questions, 6 seconds each.	Years 3–4
	2. Tables 3, 4 and 8 ⏱	10 questions, 6 seconds each.	Years 3–4
	3. Tables 6, 7 and 9 ⏱	10 questions, 6 seconds each.	Year 4
	4. Tables 11 and 12 ⏱	10 questions, 6 seconds each.	Year 4
	5. The full check ⏱	25 questions from every table, just like the real check.	Year 4
Division Facts Check	1. ÷ 2, 5 and 10 ⏱	10 questions, 6 seconds each.	Years 3–4
	2. ÷ 3, 4 and 8 ⏱	10 questions, 6 seconds each.	Years 3–4
	3. ÷ 6, 7 and 9 ⏱	10 questions, 6 seconds each.	Year 4
	4. ÷ 11 and 12 ⏱	10 questions, 6 seconds each.	Year 4
	5. All the division facts ⏱	25 questions from every table.	Year 4
Mental Maths	1. Adding and taking away ⏱	2-digit numbers, 12 seconds each.	Years 3–4

Activity	Level	What you'll practise	Year
	2. × and ÷ by 10, 100 and 1000 ⏱	Move the digits, 10 seconds each.	Years 4–5
	3. Doubles and halves ⏱	Split into tens and ones, 10 seconds each.	Years 3–4
	4. Near multiples ⏱	Like 346 + 99: round, then adjust. 12 seconds each.	Years 4–5
	5. Tables with tens ⏱	Like 30 × 7 and 2400 ÷ 6, 10 seconds each.	Years 4–5
	6. Mixed round ⏱	20 questions of every kind, 12 seconds each.	Years 4–6
Long Division	1. 3-digit ÷ 2-digit	Start with numbers like 864 ÷ 24.	Year 6
	2. 4-digit ÷ 2-digit	SATs questions like 3672 ÷ 24.	Year 6
	3. With remainders	Long division with something left over.	Year 6
More Fractions	1. Comparing fractions	Which is bigger, 3/5 or 2/3?	Years 5–6
	2. Adding mixed numbers	SATs questions like 2 1/4 + 3/8.	Years 5–6
	3. Subtracting mixed numbers	SATs questions like 3 1/2 – 1 3/4.	Years 5–6
	4. Multiplying fractions	Questions like 2/3 × 3/4.	Year 6
	5. Dividing by a whole number	Questions like 4/5 ÷ 2.	Year 6
Percentages	1. 10%, 25% and 50%	Tenths, quarters and halves.	Year 5
	2. Multiples of 5%	Build from 10% and 5%, like 35% of 240.	Years 5–6
	3. Any percentage	Build from 10% and 1%, like 12% of 300.	Year 6
	4. Fractions, decimals and percentages	Convert between all three.	Years 5–6
Order of Operations	1. × and ÷ before + and –	Questions like 7 + 3 × 4.	Year 6
	2. Brackets first	Questions like (6 + 9) × 4.	Year 6
	3. Mixed calculations	Several steps in the right order.	Year 6
	4. Squares and cubes	Powers come before × and +.	Year 6
Estimating & Checking	1. Estimating sums	Round to the nearest 10 or 100 first.	Years 3–4
	2. Estimating products	Round both numbers to the nearest 10.	Years 4–5
	3. Checking with the inverse	Add back to check a take-away, multiply to check a division.	Years 3–4
	4. Is it right?	Use the inverse to spot mistakes.	Years 4–5
	5. Best estimate	Which answer is about right?	Years 5–6
Word Problems	1. Adding and taking away	One step: is it more or less?	Years 3–4

Activity	Level	What you'll practise	Year
	2. Multiplying and dividing	One step, and what to do with a remainder.	Years 5–6
	3. Shopping	Two steps with money and change.	Years 4–5
	4. Time and measures	Times, lengths and capacity.	Years 4–5
	5. Multi-step problems	Fractions, percentages, ratio and the mean.	Year 6

Key Stage 2 · Number & Measurement

Activity	Level	What you'll practise	Year
Place Value	1. Digit values	What is the 7 worth in 4,738,215?	Years 5–6
	2. Rounding whole numbers	Round to the nearest 10, 100, 1,000 and more.	Years 4–6
	3. Rounding decimals	Round to a whole number or decimal places.	Years 5–6
	4. Roman numerals	Read numbers and years like MCMXLIV.	Years 4–5
	5. Numbers in words	Write numbers like four million, sixty thousand and five.	Years 5–6
Decimals	1. Tenths and hundredths	Write fractions and parts as decimals.	Year 4
	2. Comparing decimals	Is 0.5 or 0.45 bigger?	Years 4–5
	3. Rounding decimals	To the nearest whole number or 1 decimal place.	Years 4–5
	4. × and ÷ by 10, 100 and 1000	Move the digits left or right.	Years 5–6
	5. Decimals and fractions	0.75 = 3/4 and back again.	Years 4–5
	6. Multiplying decimals	Questions like 3.27 × 4.	Year 6
Negative Numbers	1. Counting back past zero	Questions like 4 – 9.	Years 4–5
	2. Adding to a negative	Questions like –6 + 10.	Years 5–6
	3. Taking away from a negative	Questions like –3 – 5.	Year 6
	4. Temperature differences	How far is it from –5°C to 7°C?	Years 5–6
Factors & Primes	1. Factors	How many factors does 36 have?	Year 5
	2. Common multiples	The lowest common multiple of 4 and 6.	Year 6
	3. Common factors	The highest common factor of 12 and 18.	Year 6
	4. Prime numbers	Next primes and prime factors.	Year 5
	5. Squares and cubes	Questions like 7^2 and 4^3.	Year 5

Activity	Level	What you'll practise	Year
Ratio & Proportion	1. Scaling recipes	Make a recipe for more people.	Year 6
	2. Find one first	If 4 cost £36, how much do 7 cost?	Year 6
	3. Sharing in a ratio	Share 20 beads in the ratio 2 : 3.	Year 6
	4. For every…	For every 2 cats there are 5 dogs.	Year 6
	5. Scale drawings	Maps where 1 cm stands for a real distance, and enlargements.	Year 6
Measurement	1. Length	Convert between km, m, cm and mm.	Years 4–5
	2. Mass and capacity	Convert between kg and g, l and ml.	Year 5
	3. Units of time	Hours, minutes, seconds, weeks and days.	Years 4–5
	4. How long?	Minutes between two 24-hour times.	Years 4–5
	5. Clocks to the minute	Read times like 7:23 on a clock face.	Year 3
	6. 24-hour clock	Read a clock and write it as 24-hour time.	Year 4
	7. Imperial units	Inches, feet, miles, pounds, pints and gallons.	Year 5
Time & Timetables	1. Units of time	Seconds, minutes, hours, days, weeks and years.	Years 4–5
	2. How long and what time?	Time between two times, and times later.	Years 3–4
	3. Reading timetables	When does the bus reach each stop?	Years 4–5
	4. Journey times	How long does the bus take?	Years 4–5
	5. Catching the right bus	The latest bus that gets you there in time.	Year 5
Money	1. Adding money	Questions like £3.45 + £2.80.	Year 3
	2. Giving change	How much change from £10?	Year 3
	3. Pounds and pence	Write £4.07 in pence, or 345p in pounds.	Year 4
	4. Buying several	How much do 6 pens at 45p each cost?	Year 4
Number Lines	1. Counting in 1s and 2s	Number lines up to 20.	Years 2–3
	2. Counting in 5s and 10s	Number lines up to 100.	Years 2–3
	3. Big numbers	Hundreds and thousands.	Years 3–4
	4. Decimals	Tenths and hundredths.	Years 4–5
	5. Fractions and negatives	Parts of a whole, and below zero.	Years 4–5
Reading Scales	1. Rulers	How long is the pencil?	Year 3
	2. Measuring jugs	Read the water level in ml.	Years 3–4
	3. Weighing scales	Work out what each mark is worth.	Years 3–4

Activity	Level	What you'll practise	Year
	4. Thermometers	Temperatures above and below zero.	Years 4–5
	5. Decimal scales	Kilograms and litres with decimals.	Year 5

Key Stage 2 · Geometry & Statistics

Activity	Level	What you'll practise	Year
Area & Perimeter	1. Perimeter of rectangles	Add all the way round the outside.	Years 3–4
	2. Area of rectangles	Count the squares, then use length × width.	Years 4–5
	3. Missing sides	Work backwards from the area or perimeter.	Year 5
	4. Compound shapes	L-shapes made from two rectangles.	Year 5
	5. Triangles and parallelograms	Base × height, using the dashed height.	Year 6
Angles	1. Types of angle	Acute, right, obtuse or reflex?	Years 4–5
	2. Angles on a straight line	They add up to 180°.	Year 5
	3. Right angles and around a point	They add up to 90° and 360°.	Year 5
	4. Angles in a triangle	They add up to 180°.	Year 6
	5. Isosceles triangles and crossing lines	Equal angles and vertically opposite angles.	Year 6
	6. Angles in quadrilaterals	They add up to 360°.	Year 6
	7. Regular polygons	Find the angles inside regular shapes.	Year 6
	8. Measuring angles	Read a protractor, using the right scale.	Year 5
Volume & 3D Shapes	1. Counting cubes	Layers of cubes: count one layer, then multiply.	Year 5
	2. Volume of a cuboid	Length × width × height in cm^3.	Year 6
	3. Missing lengths	Work back from the volume.	Year 6
	4. Nets	Which 3D shape does the net fold into?	Year 6
	5. Radius and diameter	The diameter is twice the radius.	Year 6
Coordinates	1. Reading coordinates	Across first, then up.	Year 4
	2. Finding points	Which point is at these coordinates?	Year 4
	3. Missing corners	Find the last corner of a rectangle.	Years 4–5
	4. Four quadrants	Coordinates below and left of zero.	Year 6
	5. Moving points	Translate and reflect points.	Years 5–6
Shapes & Symmetry	1. Sides and corners	Count the sides or vertices.	Year 3

Activity	Level	What you'll practise	Year
	2. Naming shapes	Triangle, pentagon, hexagon…	Years 3–4
	3. Is it symmetrical?	Is the dashed line a line of symmetry?	Year 4
	4. Lines of symmetry	How many lines of symmetry?	Year 4
	5. Right angles	Count the right angles in a shape.	Year 3
	6. Types of triangle	Equilateral, isosceles, scalene or right-angled?	Year 4
	7. Types of quadrilateral	Square, rectangle, rhombus, parallelogram, kite or trapezium?	Year 4
	8. Parallel and perpendicular	Lines that never meet, and lines that meet at a right angle.	Year 3
Statistics	1. Pictograms	Each symbol stands for 1.	Year 3
	2. Pictograms with a key	Each symbol stands for 2, 4 or 10.	Year 3
	3. Reading bar charts	Read the scale, even between the lines.	Years 3–4
	4. Comparing bars	How many more, and how many altogether?	Years 3–4
	5. Line graphs	Readings and changes over time.	Years 4–5
Pie Charts & Tables	1. Two-way tables	Read across a row and down a column.	Year 5
	2. Missing numbers in tables	Use the totals to fill the gap.	Year 5
	3. Pie chart fractions	What fraction is each slice?	Year 6
	4. How many in a slice?	Share the total between the parts.	Year 6
	5. The mean	Add them up and share equally.	Year 6
Venn & Carroll Diagrams	1. Where does it go?	Find the number for the ? box in a Carroll diagram.	Years 3–4
	2. Reading Carroll diagrams	Count the numbers in a box, row or column.	Years 3–4
	3. Reading Venn diagrams	Inside, outside and in the overlap.	Years 3–4
	4. Venn diagram puzzles	Find the number for the ? in a Venn diagram.	Years 3–4

Key Stage 2 · Algebra

Activity	Level	What you'll practise	Year
Mystery Numbers	1. Times and divide puzzles	Find the missing number in □ × 6 = 42.	Years 3–4
	2. Bigger numbers	Adding and taking away with 3-digit numbers.	Years 3–4
	3. Two-step puzzles	Work backwards, like 3 × □ + 4 = 19.	Years 5–6

Activity	Level	What you'll practise	Year
Function Machines	1. One step	What comes out of the machine?	Years 3–4
	2. Two steps	Two jobs, one after the other.	Years 4–5
	3. Work backwards	What number went in?	Years 5–6
Sequences	1. What comes next?	Find the next number in the sequence.	Years 4–5
	2. Missing terms and negatives	Sequences that go below zero.	Year 5
	3. Further along	Work out the 10th, 15th or 20th term.	Year 6
Formulae	1. One letter	If a = 6, what is 3a?	Year 6
	2. Two steps	Work out 4n + 7 when n = 5.	Year 6
	3. Two letters	Use the values of a and b together.	Year 6
	4. Real-life formulas	Perimeters, prices and cooking times.	Year 6
Equations	1. Adding and taking away	Solve equations like x + 7 = 15.	Year 6
	2. Multiplying and dividing	Solve equations like 4x = 28.	Year 6
	3. Two-step equations	Solve equations like 3x + 5 = 20.	Year 6
	4. Two unknowns	Find a and b from two facts, like a + b = 15 and a – b = 3.	Year 6

Key Stage 2 · SATs Practice

Activity	Level	What you'll practise	Year
SATs Practice	1. Arithmetic mix	Like Paper 1: written methods, fractions and percentages.	Year 6
	2. Reasoning mix	Like Papers 2 and 3: problems, charts, shapes and measures.	Year 6
	3. Timed arithmetic ⏱	20 calculations, 50 seconds each: the pace of the real paper.	Year 6

APPENDIX B

Words we use

Word	What it means
Activity	A topic to practise, such as Fractions or Telling the Time.
Level	A set of questions within an activity. Level 1 is the easiest.
Round	One go at a level: usually 10 questions.
Hint	A clue from Eclipse. There are three per question.
Worked solution	Eclipse's step-by-step "How to solve it" explanation.
Saved question	A question Eclipse has kept for you to try again.
Timed check	A level with a countdown for each question, like a real test.
Stars	Up to 3 stars for each round, depending on your score.
Passed	A level where your best score earned 2 or more stars.
Worksheet	A printable sheet of 20 questions on two A4 pages.
Year group	Your school year, from Year 1 to Year 6. The year buttons on the home page show the activities and levels for your year.
Typing time	Extra seconds added to each question in timed levels, from 0 to 10.