Family Learning Session

Mathematical Fluency

How can you help your child at home?



Aims:

To explain how Maths Fluency is taught across school (EYFS–KS2)

To share how parents can support maths at home

To celebrate our approach to developing fluent, confident mathematicians.

“At Amotherby, we believe every child can succeed in maths - with the right support, the right approach, and the confidence to keep trying.”

Maths is for everyone

Confidence grows through practice and understanding

Fluency is the foundation for success

What is fluency?

- **Quick and accurate recall of key facts**
- **Understanding why methods work**
- **Being able to apply knowledge flexibly** (Encourage children to learn **division facts alongside multiplication**)

Mathematical Fluency at Amotherby School

Building confidence, skilful mathematicians for life

What is mathematical fluency?

Mathematical fluency means being able to recall key facts quickly and accurately, use flexible strategies, and understand how numbers work. It helps children build confidence and supports success in all areas of maths.

Our approach

We use White Rose Maths and a mastery approach, supported by the Mastering Number programme in the early years and Key Stage 1. Learning is carefully sequenced in small steps and builds cumulatively across school.

White Rose Maths

Mastering Number

Five areas of fluency

1. Number & Place Value
2. Addition & Subtraction
3. Multiplication & Division
4. Fractions, Decimals & Percentages
5. Measurement & Geometry

These skills build year on year from Reception to Year 6.

Reception (EYFS)

Number sense to 10

- Subitise up to 5
- Count reliably to 10 and beyond
- Understand the composition of numbers to 10
- Recall number bonds within 5 and 10
- Compare quantities (more/less/equal)



Match, sort, compare, represent, one more/one less and explore how numbers are made.

Year 1

Building strong foundations

- Count to 100 forwards and backwards
- Count in 2s, 5s and 10s
- Read and write numbers to 100
- Number bonds to 10 (automatic recall)
- Add and subtract within 20 using mental strategies



Use part–whole models, bridging through 10 and explore fact families.

Year 2

Developing confidence and mental strategies

- Count in 2s, 3s, 5s and 10s
- Understand place value to 100
- Recall all number bonds to 20
- Add and subtract 2-digit numbers
- Recall ×2, ×5 and ×10 tables

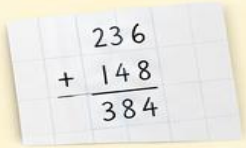


Use known facts to derive others and build efficient mental strategies.

Year 3

Increasing fluency and understanding

- Count in multiples of 4, 8, 50 and 100
- Understand 3-digit numbers
- Formal written methods (column) for addition and subtraction
- Recall ×3, ×4 and ×8 tables
- Begin written multiplication



Use arrays and grouping to understand multiplication and division.

Year 4

Securing key facts and applying skills

- Numbers to 10,000
- All times tables to 12 × 12 (statutory check)
- Use efficient written and mental methods
- Develop fluency with fractions
- Apply knowledge to problem solving

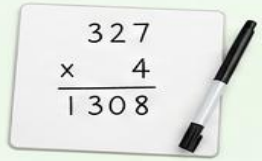
×	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

Develop fluency across all times tables and apply skills in a range of contexts.

Year 5

Deepening understanding and applying fluency

- Numbers to 1,000,000
- Count in powers of 10
- Long multiplication and short division
- Fluency with fractions and decimals
- Apply fluency to problem solving and reasoning



Use mental and written methods with increasing efficiency and apply fluency to more complex problems.

Year 6

Applying fluency with confidence

- Numbers to 10 million
- Negative numbers
- Multi-step problems
- Long division
- Fractions, decimals and percentages
- Use fluency to reason and solve problems in real-life contexts



Fluent recall and flexible use of skills supports success in KS2 and beyond.

How you can help at home

Regular, short practice of key facts, using everyday maths and playing games all help to build fluency and confidence. See our 'How you can help with maths at home' guide for ideas.

Together we can make a difference

Consistent practice at home and school helps children develop the skills, confidence and love of maths they need for life.

Active – Aspire – Achieve

Confident mathematicians for a successful future.

How do we teach fluency?

Every year group has a separate fluency maths lesson.

Mastering Number (EYFS- Year 6)
Fluent in 5 (Years 2-6)
Times Tables Practice

Timetable (years 2-6)

8.50am – 9.00am	Early Morning Work
9.00am – 9.30am	Maths Fluency
9.30am – 10.30am	Maths Lesson
BREAK	
10.45am – 11.15am	Whole Class Reading
11.15am – 12.15pm	English Lesson

Timetable EYFS & Year1

EYFS

8.50am – 10.00am	Provision
10.00am – 10.30am	Phonics Snack Time
10.30am - 11.30am	Provision
11.30am – 12.00pm	Tidy Up Time Mastering Number

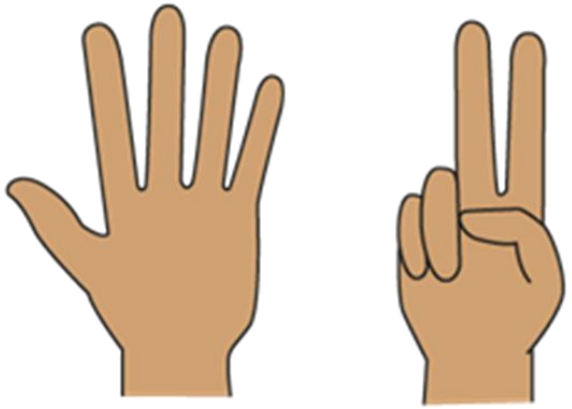
Year 1

8.50am – 9.00am	Early Morning Work
9.00am – 9.30am	Phonics
9.30am – 10.30am	English Lesson
BREAK	
10.45am – 11.40am	Maths
11.40am – 12.00pm	Guided Reading Groups

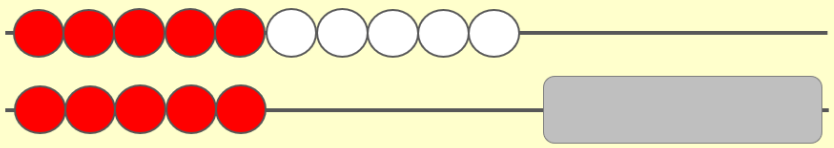
1.00pm – 1.15pm	Mastering Number (Fluency)

NCETM
NATIONAL CENTRE FOR EXCELLENCE IN THE TEACHING OF MATHEMATICS





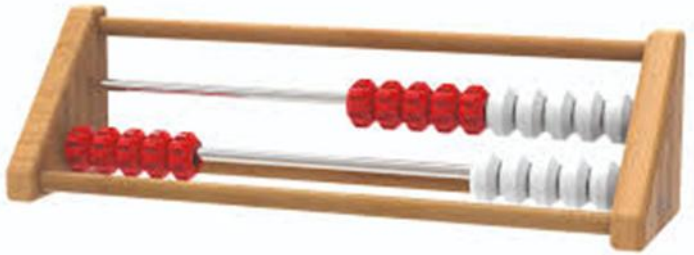
How many beads are hidden? How do you know?



____ needs ____ to make 10;
so, ____ needs ____ to make 20.

____ is made of 5 and ____ ;
5 and ____ make ____ .

Mastering Number

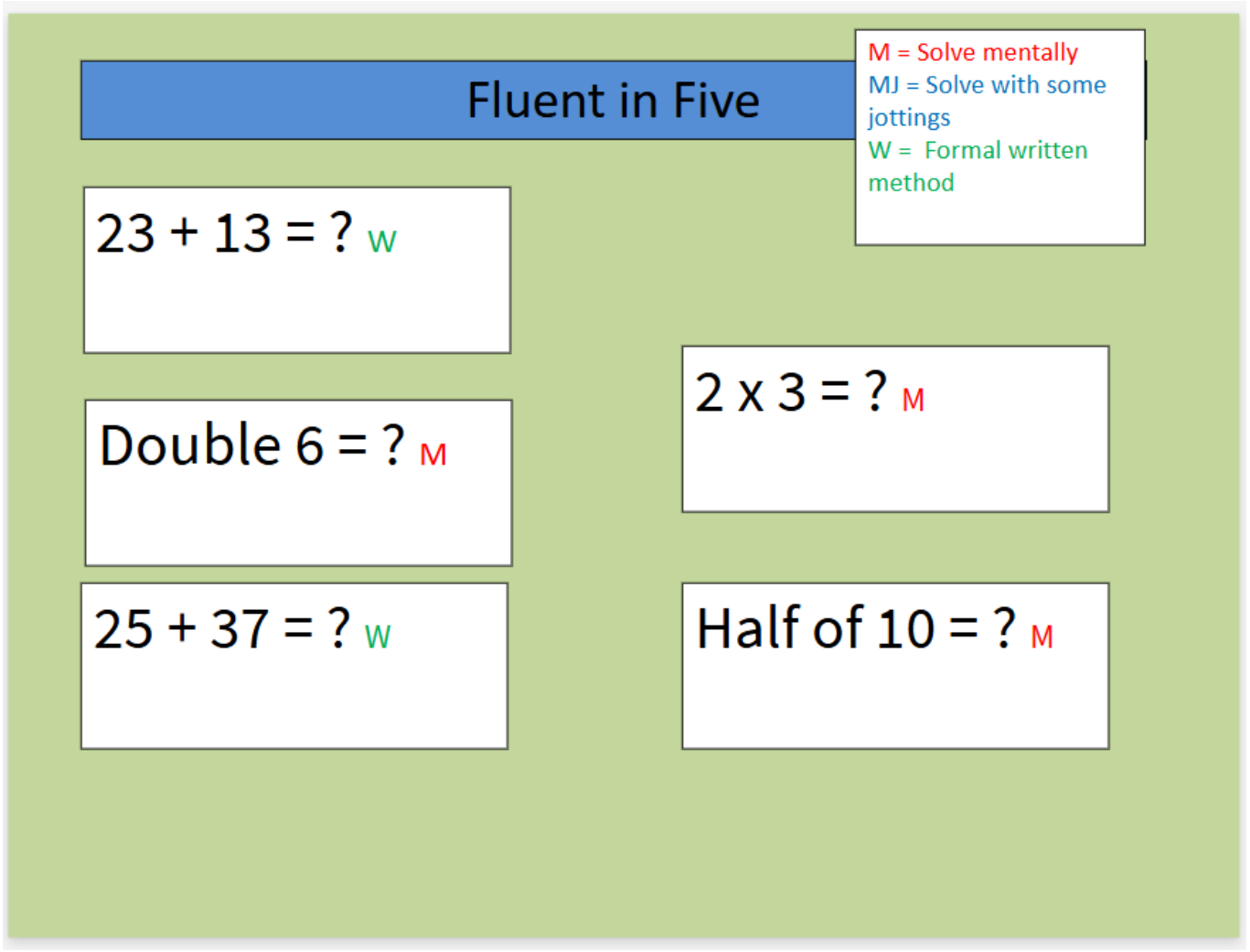


Can you identify the missing digits in this equation?

$$\square \times 12 = 7\square$$

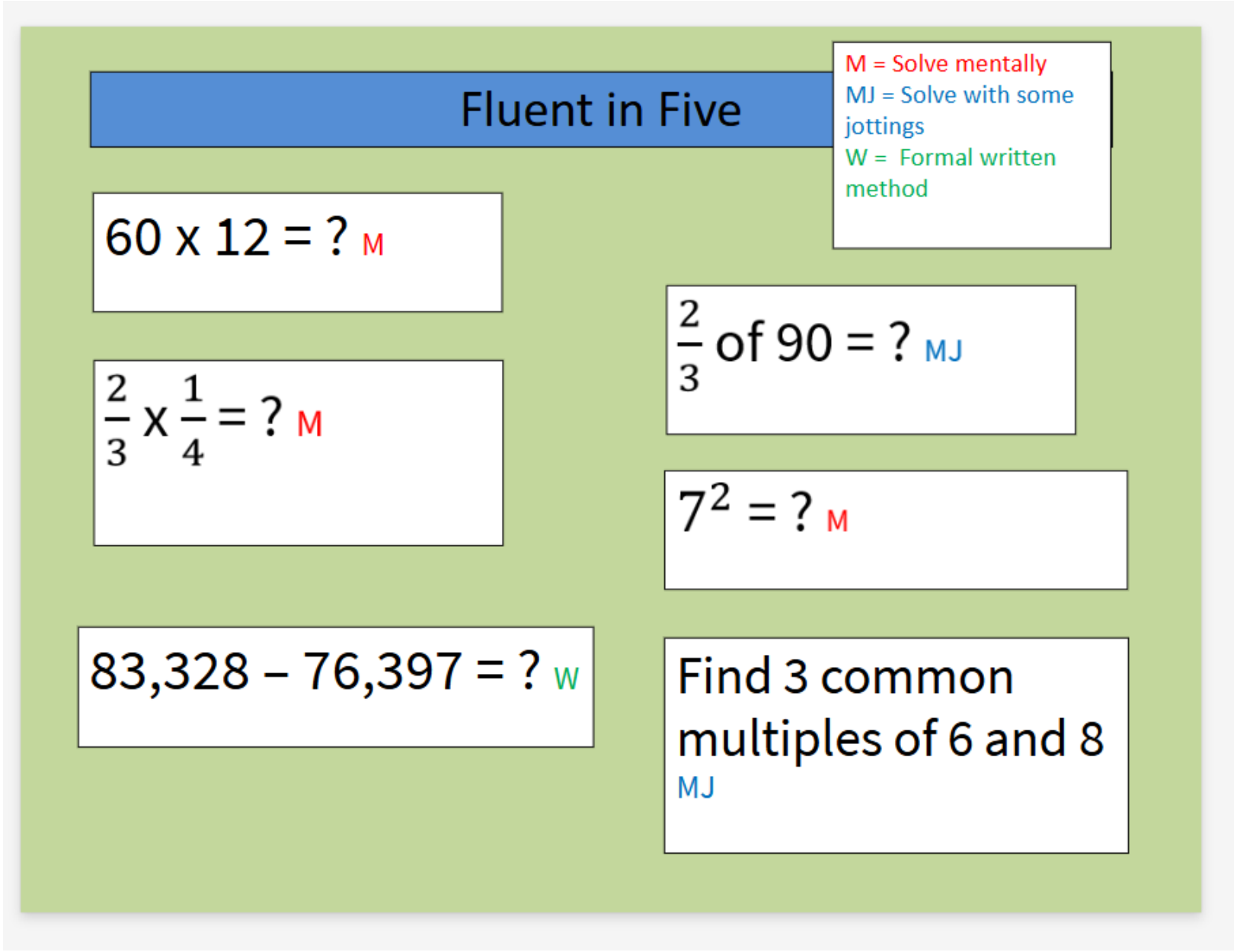


I can see that one factor is 12. I know that the product is 70-something.


Fluent in Five
M = Solve mentally
MJ = Solve with some jottings
W = Formal written method
23 + 13 = ? W
Double 6 = ? M
25 + 37 = ? W
2 x 3 = ? M
Half of 10 = ? M

Year 2

Year 5


Fluent in Five
M = Solve mentally
MJ = Solve with some jottings
W = Formal written method
60 x 12 = ? M
$\frac{2}{3}$ of 90 = ? MJ
$\frac{2}{3} \times \frac{1}{4}$ = ? M
7^2 = ? M
83,328 – 76,397 = ? W
Find 3 common multiples of 6 and 8
MJ

PTA

Our PTA is looking for new members, and we would love more parents and carers to get involved!

Help organise events and fundraising activities.
Support opportunities and experiences for our children.
Get involved as much or as little as your time allows.

We have recently sent an email with a link to a Google Form where you can register your interest.

Parents Evening

Bookings open on Monday 2nd November.

A reminder that Parents' Evenings are **parent-only appointments**, allowing time for focused discussions about your child's progress and learning.

Children can be supervised in the school hall while you attend your appointment.

You will also have the opportunity to view and collect your child's work.