



# Supporting Your Child with Maths

Year 4

Booklet 4: July

These booklets have been designed to help you support your child as they build and develop their skills on a **strong foundation** of key mathematical concepts.

The maths curriculum covers a wide range of concepts but is built on **confidence and fluency of key facts**. When a child is fluent with these facts and skills their confidence grows and they are more able to **apply** them to a range of problems.

The booklets include specific guidance for your child's year group on skills and methods used as well as ideas for games to play and ways to practise key ideas.

Wherever we can, we want to make this practice **fun** and **practical**.

Lots of opportunities to **talk** about the maths and to show that we, as adults, **enjoy** it too.

*Did you know?*

- Parents' maths knowledge has **no** impact on how successful their children will be
- Parents' attitude towards maths has a **pro-found** impact on their children's success

*Did you know?*

Mathematical understanding has a bigger impact on success in adulthood than reading and writing

If you have any questions or would like to know more, please contact your child's teacher or Mrs Gibbons, the maths leader.



# Learn-Its

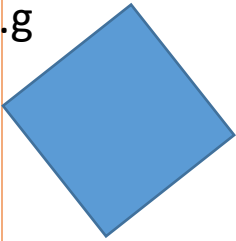
Year 4 – Phase 4 (Apr-Jul)

## I can use and understand key shape vocabulary.

By the end of this phase, children should know the following facts. The aim is for them to recall these facts **instantly**.

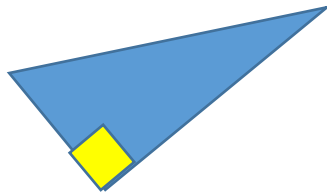
Children need to recognise a variety of shapes in different orientations based on their properties.

e.g.



### SQUARE

4 equal sides  
4 right angles



### RIGHT ANGLED TRIANGLE

The right angle is  
sometimes difficult to spot!



### OCTAGON

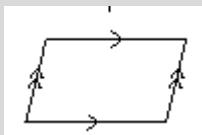
8 sides and 8 angles  
Not a regular octagon.

### Key Vocabulary

Regular and irregular	Regular shapes have equal sides and equal angles
Parallel lines	Two lines that are always the same distance apart
Perpendicular lines	Two lines that meet at a right angle
Isosceles (triangle)	Two lines the same length and
Equilateral (triangle)	All sides the same length

### Parallelogram

4 sides, 2 pairs of  
parallel sides, opposite  
angles equal



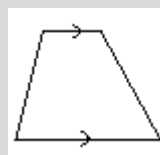
### Rhombus

Parallelogram but  
with all sides the  
same length



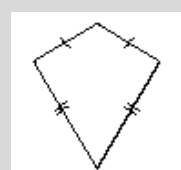
### Trapezium

4 sides and 1 pair of  
parallel sides



### Kite

4 sides, 2 pairs of  
adjacent sides the  
same length





# Practise It!

Year 4 – Phase 4 (Apr- Jul)

I can multiply and divide single-digit numbers by 10 and 100.

	10 Thousands	Thousands	Hundreds	Tens	Ones
				2	4
$24 \times 10$			2	4	0
$24 \times 100$		2	4	0	0
$24 \times 1000$	2	4	0	0	0

Initially, we use a place value chart to look at what happens when we multiply and divide by 10, 100.

- When we multiply by 10, all digits move up one place
- When we multiply by 100, all digits move up two places
- When we divide by 10, all digits move down one place
- When we divide by 100, all digits move down two places

$$7 \times 10 = 70$$

$$10 \times 7 = 70$$

$$70 \div 7 = 10$$

$$70 \div 10 = 7$$

$$0.8 \times 10 = 8$$

$$10 \times 0.8 = 8$$

$$8 \div 0.8 = 10$$

$$8 \div 10 = 0.8$$

## Top Tips

- Remember to add any placeholders
- DO NOT just add 0. It doesn't work with decimal numbers.

These are just examples of the facts for this phase. Children should be able to answer these questions in any order, including missing number questions e.g.  $10 \times \bigcirc = 5$  or  $\bigcirc \div 10 = 60$ .



# Try It!

Year 4 – Phase 4 (Apr-Jul)

Try these

Can you find examples of different quadrilaterals around your home? When watching TV?

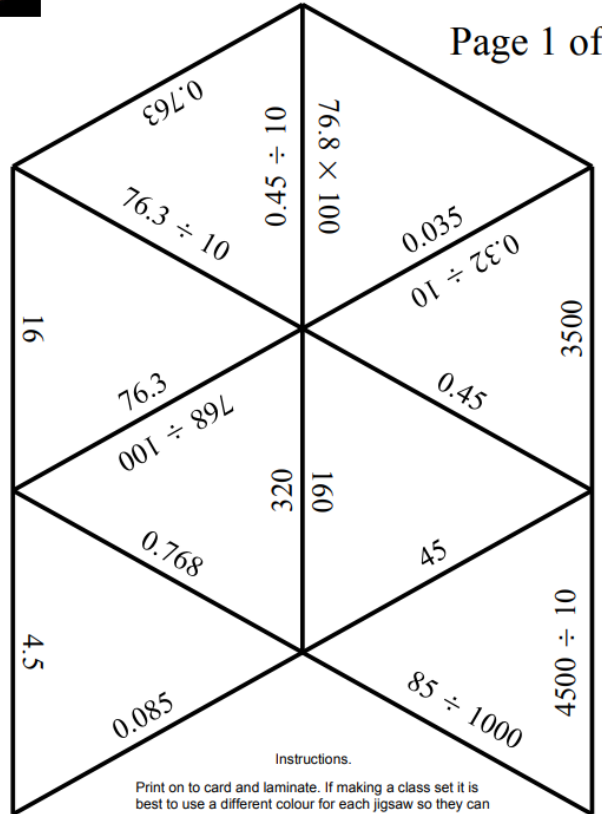


Hmm – not sure about this one!!!



## Multiply and Divide by 10, 100, 1000 Jigsaw

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Instructions.

Print on to card and laminate. If making a class set it is best to use a different colour for each jigsaw so they can easily be sorted. Cut out the pieces.

[www.mathswithgraham.org.uk](http://www.mathswithgraham.org.uk)

This is the first page of a cut out and fit together puzzle. The rest can be found on the internet.