



Supporting Your Child with Maths

Year 6

Booklet 3: April

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 **profound 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 6 – Phase 3 (Feb-Apr)

I know fraction, decimal and percentage equivalents.

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

Fraction	Percentage Fraction	Percentage	Decimal
$\frac{1}{2}$	50/100	50%	0.5
$\frac{1}{4}$	25/100	25%	0.25
$\frac{3}{4}$	75/100	75%	0.75
$\frac{1}{5}$	20/100	20%	0.2
$\frac{1}{10}$	10/100	10%	0.1
$\frac{1}{100}$	1/100	1%	0.01

Key Vocabulary

How many **tenths** is 0.8?

How many **hundredths** is 0.12?

Write 0.75 as a **fraction**?

Write $\frac{1}{4}$ as a **decimal**?

Children should be able to convert between decimals and fractions for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ and any number of tenths and hundredths. They should be able to use these facts to solve simple percentage questions.

Top Tips

The secret to success is practising **little** and **often**. Use time wisely. Can you practise these Learn-Its while walking to school or during a car journey? You don't need to practise them all at once: start with tenths before moving on to hundredths. If you would like more ideas, please speak to your child's teacher.

Play games - Make some cards with pairs of equivalent fractions and decimals. Use these to play the memory game or snap. Or make your own dominoes with fractions on one side and decimals on the other.



Practise It

Year 6 – Phase 3 (Feb-Apr)

I can use a formal long division method.

This division method is the familiar long division method many of us were taught at school.

There is a worked example below.

$$\begin{array}{r} 2 \\ 15 \overline{) 3640} \\ \underline{- 30} \\ 6 \end{array}$$

15 into 3 doesn't go, so look at the next digit.

15 goes into 36 two times, so put a 2 above the 6.
 $15 \times 2 = 30$

Take that 30 away from the 36 to get your remainder.
 $36 - 30 = 6$

$$\begin{array}{r} 24 \\ 15 \overline{) 3640} \\ \underline{- 30} \\ 64 \\ \underline{- 60} \\ 4 \end{array}$$

Next, carry the 4 down to make 64.

15 goes into 64 four times, so put a 4 above the 4.
 $15 \times 4 = 60$

Take 60 from the 64 to get your remainder.
 $64 - 60 = 4$

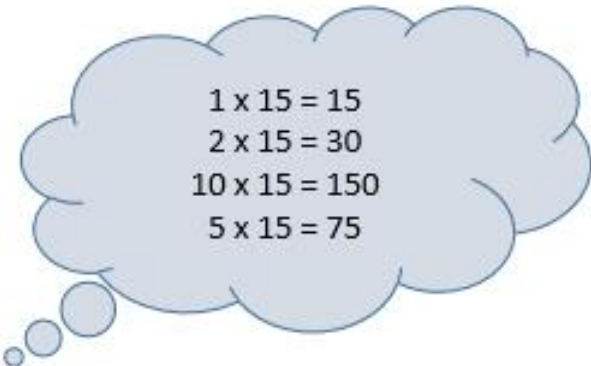
$$\begin{array}{r} 242 \\ 15 \overline{) 3640} \\ \underline{- 30} \\ 64 \\ \underline{- 60} \\ 40 \\ \underline{- 30} \\ 10 \end{array}$$

Carry the 0 down to make 40.

15 goes into 40 two times, so put a 2 above the 0.
 $15 \times 2 = 30$

Take 30 from the 40 to get your remainder.
 $40 - 30 = 10$

We encourage the children to make a clever cloud. All calculation facts can be found using these.



Does McDonald's serve Cheese Burgers?



How to Divide!



Does	÷ (divide)
McDonald's	x (multiply)
Serve	- (subtract)
Cheese	(check)
Burgers?	↓ (bring down)

LONG DIVISION

$357 \div 7 = 51$

Divisor: 7, Dividend: 357, Quotient: 51

Dividend: A number to be divided by another number.
 Divisor: A number divided into another number.
 Quotient: The number that results from dividing one number by another number.
 * The ANSWER *

Divide ÷
 Multiply x
 Subtract -
 Check ✓
 Bring down ↓

Check that your quotient has 0 digit above every 0 in your dividend.
 Check your answer by multiplying your divisor by your quotient.

Top Tips

- Clever clouds help support the multiplication stage
- There are different ways to remember the process "Does McDonalds Sell Cheese Burger Relish?"

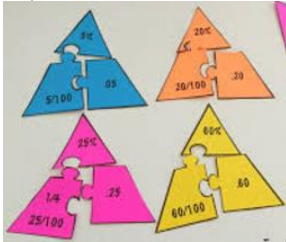


Try It

Year 6 – Phase 3 (Feb-Apr)

Try these

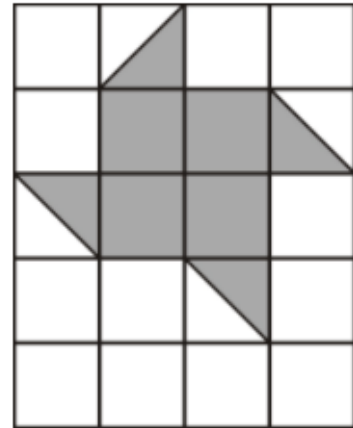
Here is a grid of 20 squares.



$$75\% \quad \frac{3}{4} \quad 0.75$$

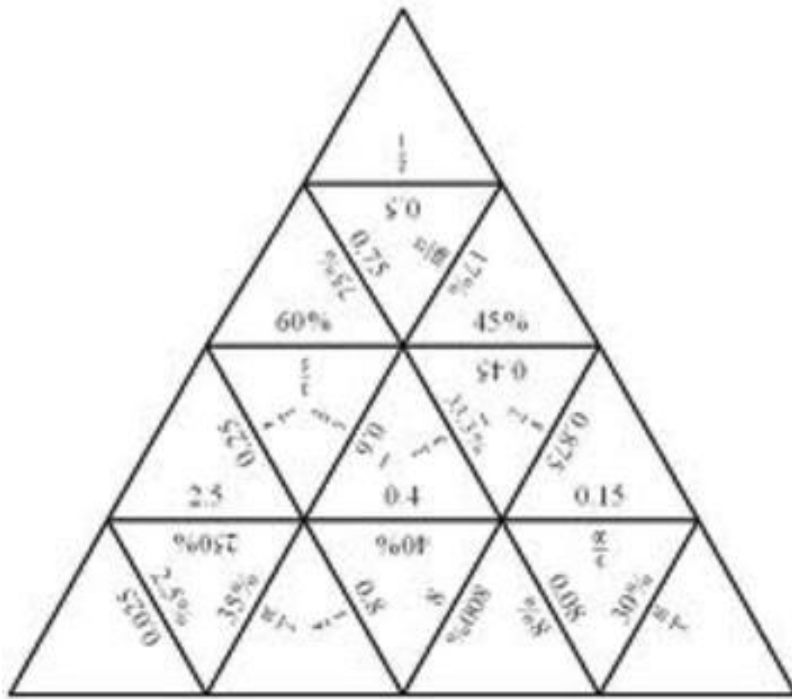
$$40\% \quad \frac{2}{5} \quad 0.40$$

$$60\% \quad \frac{3}{5} \quad 0.6$$



What percentage of the grid is shaded?

Try making a set of dominoes.



Fractions	Decimals	Percentages
1/10		
	0.2	
1/4		30%
2/5		
1/2	0.5	50%
		60%
	0.7	
		75%
8/10		
	0.9	
1/1		

Can you cut out the triangles then fit them back together by finding the equivalent values?