

# Year 4 maths newsletter



## Spring 1

This half-term will be split into three maths topics, children will continue with 'multiplication and division' before moving onto 'measurement: area' and then 'fractions'.

Any queries please email either:  
[dominic.firth@appletonacademy.co.uk](mailto:dominic.firth@appletonacademy.co.uk)  
[jessica.moran@appletonacademy.co.uk](mailto:jessica.moran@appletonacademy.co.uk)

## Number: multiplication and division

Children will continue with the multiplication and division unit looking at formal methods for both operations.

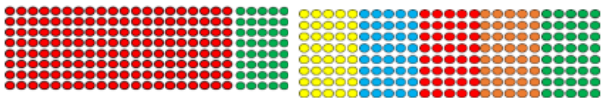
### Efficient multiplication

Children develop their mental multiplication by exploring different ways to calculate.

#### Method 1

$$25 \times 8 = 20 \times 8 + 5 \times 8$$

$$= 160 + \square = \square$$



#### Method 2

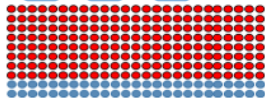
$$25 \times 8 = 5 \times 5 \times 8$$

$$= 5 \times \square = \square$$

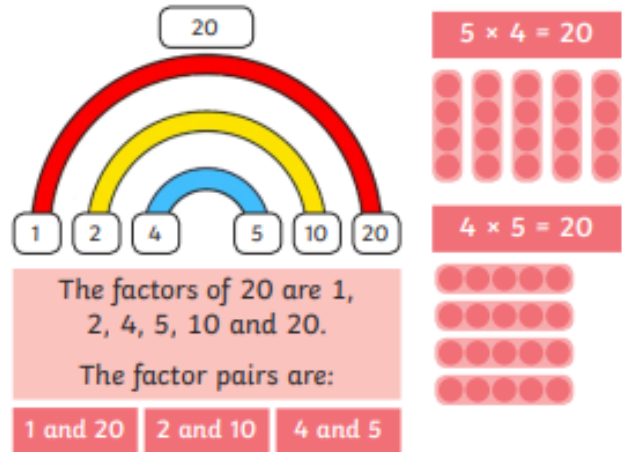
#### Method 3

$$25 \times 8 = 25 \times 10 - 25 \times 2$$

$$= \square - \square = \square$$



### Factor pairs



### Formal methods

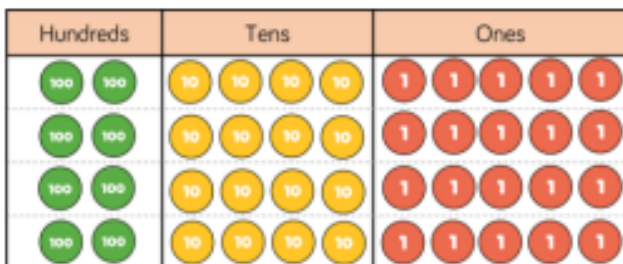
Children build on from their understanding of multiplying 2-digits by 1-digit in Year 3 and apply this to multiplying 3-digits. They continue to visualise problems first by using physical resources before drawing out the problem. They move onto the formal column method.

#### Multiplication

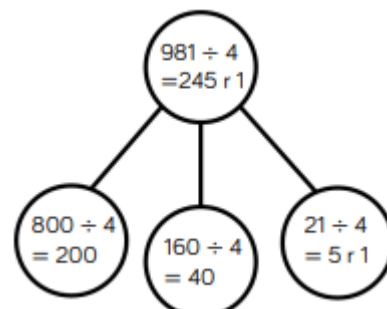
$$245 \times 4 =$$

#### Division

$$981 \div 4 =$$



	H	T	O
	2	4	5
$\times$			4

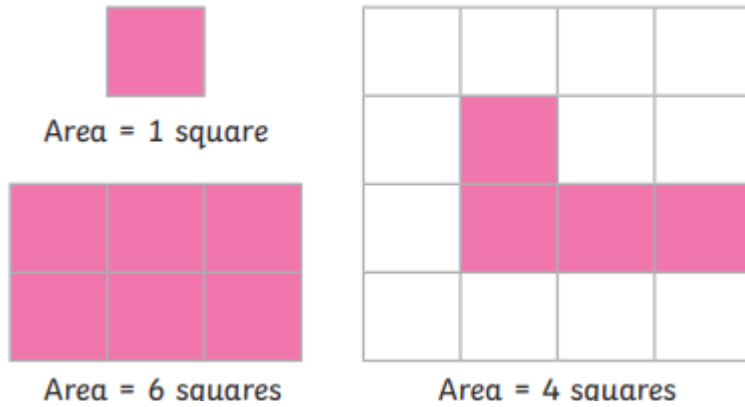


If you have any questions on how to support your child at home, please contact your child's teacher.

## Measurement: area

### Measuring area

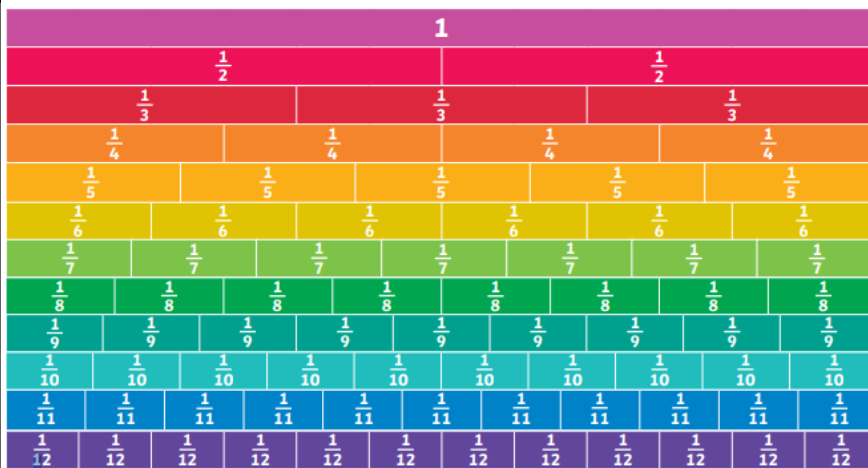
Children are introduced to area for the first time.. They understand that area is the amount of space taken up by a 2-D shape or surface.



## Fractions

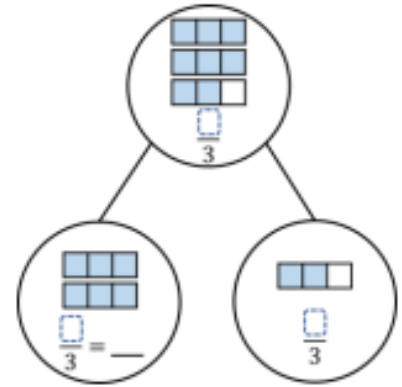
The fractions unit will be split across two half-terms.

### Equivalent fractions



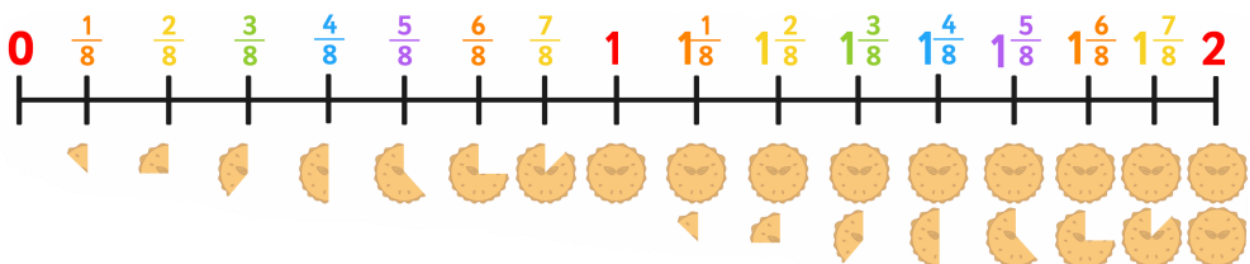
### Fractions greater than 1.

$$\frac{8}{3} = \frac{6}{3} + \frac{2}{3} = 2 \frac{2}{3}$$



### Count in fractions

Children explore fractions greater than one on a number line and start to make connections between improper and mixed numbers



## Vocabulary

The following vocabulary is used in the classroom to support learning. Please continue to support your child at home by using the same vocabulary.

### Fractions

numerator, denominator  
unit, non-unit fraction  
equivalent  
quantities  
whole  
fifths, sixths, sevenths, eights

### Multiplication and division

times tables  
multiply by, times by, lots of, groups of  
divide by, share by  
product  
multiple, factor  
fact families

## Further support at home

To support your child at home, we encourage the use of the classroom vocabulary and the same methods/strategies of calculation.

When working with your child at home, you can ask them the following question starters to further demonstrate their understanding.

- How do you know...
- Can you estimate...
- Can you convert the measurement from... to...?
- Can this be done in a different way?
- What other strategies can we use to work out?
- What does ... represent?
- Can you explain what would happen if...
- What are all the number family facts we now know from this number          sentence?
- How can we check our answers are correct?

## Times tables practise

Times Table Rock Stars is a fun and interactive way for your child to practise their times tables at home. By the end of Year 4, children will have been taught all their times tables up to 12 X 12. Please continue to practise with and support your child with these at home.

<https://trockstars.com/>

If you have any questions on how to support your child at home or need any log in information, please contact your child's class teacher.