Welcome

Year 1

Maths Workshop

Friday 20th September 2024

What we will look at...

- Format of a typical KS1 maths lesson
- The practical resources used across KS1
- Frequently used vocabulary
- Problem solving activity
- Things that will help your child at home (see website)

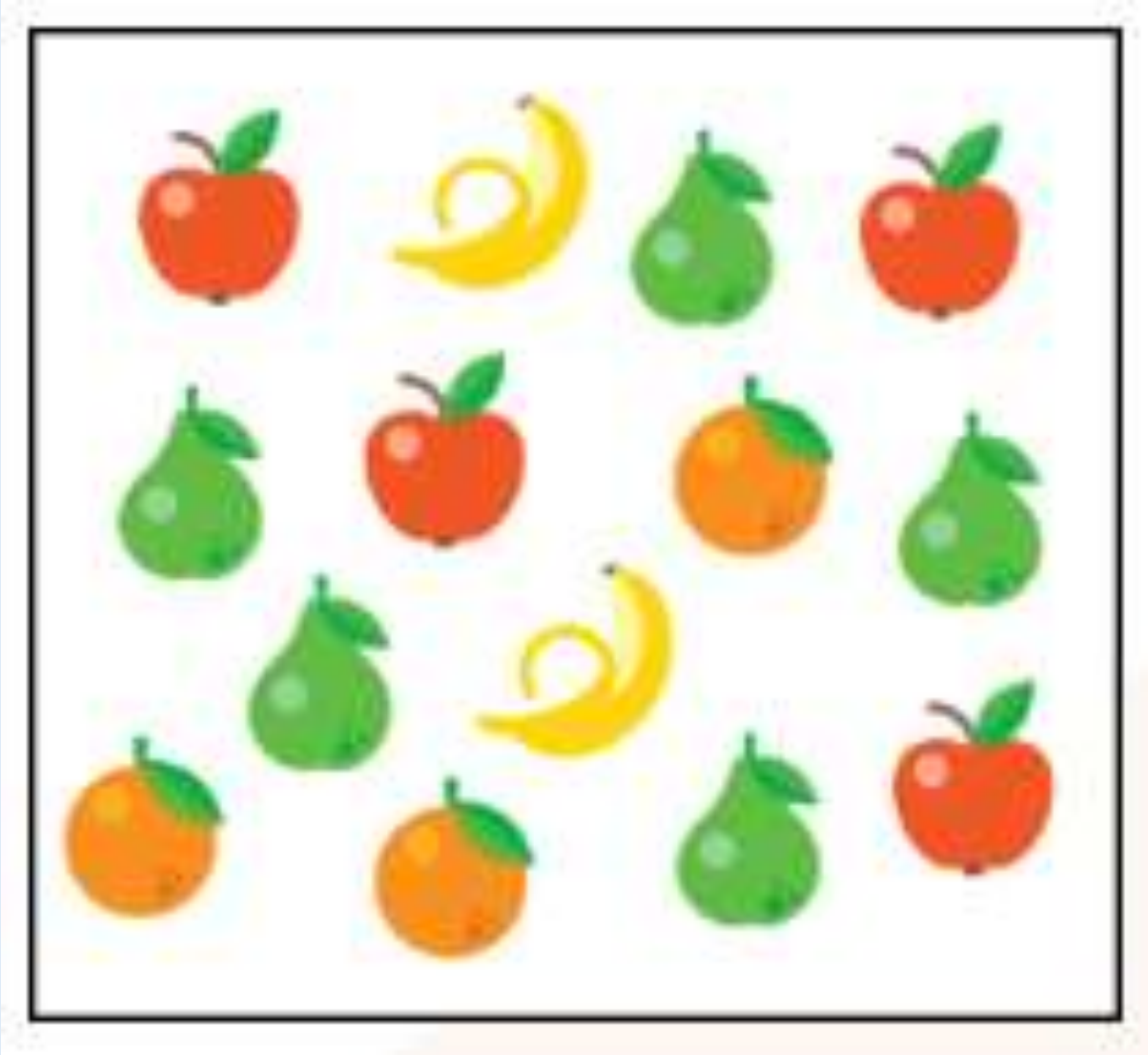
Typical Lesson Format

- Date and WALT
- Fast Four
- Hook and class discussion
- Modelled Activity (I Do)
- Worked Example (We Do)
- Independent Work – fluency, reasoning and problem-solving tasks (You Do)

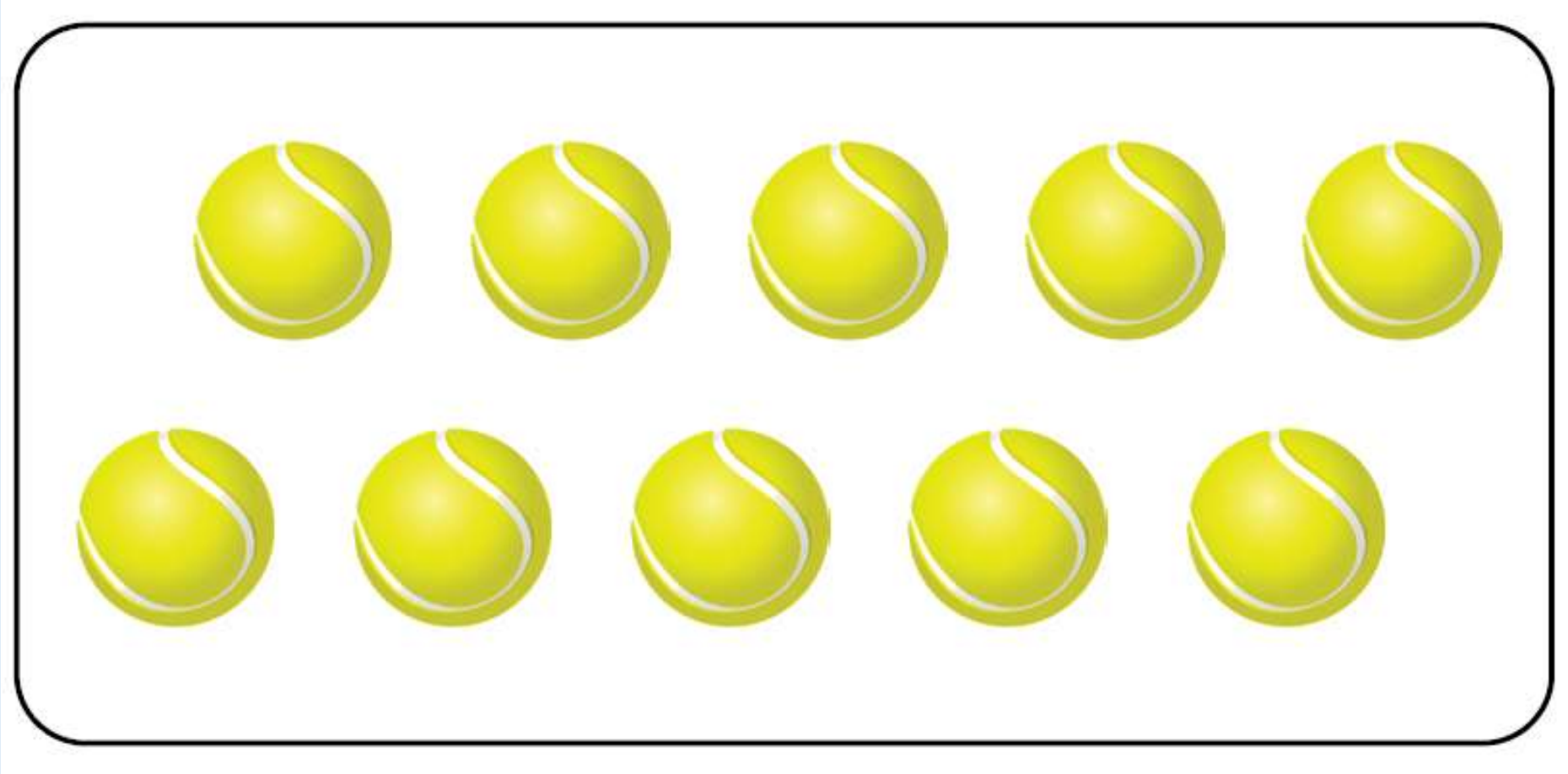
20.9.24
WALT: represent objects

Remember one digit in each box!

Hook:



Fast Four: How many?



Our Vocabulary

represent	objects
count	pictures
match	numeral

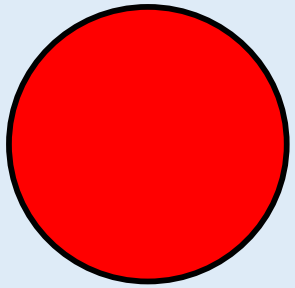
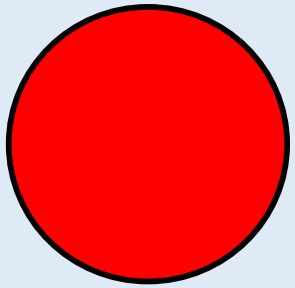
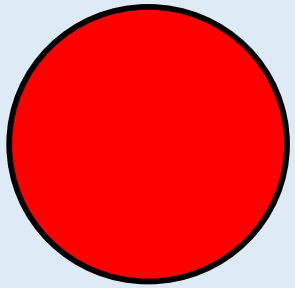
Our Sentence Stems

I can use a ___ to represent each _____.

There are ___ carrots. I am using 1 counter to represent each carrot. I need ___ counters.

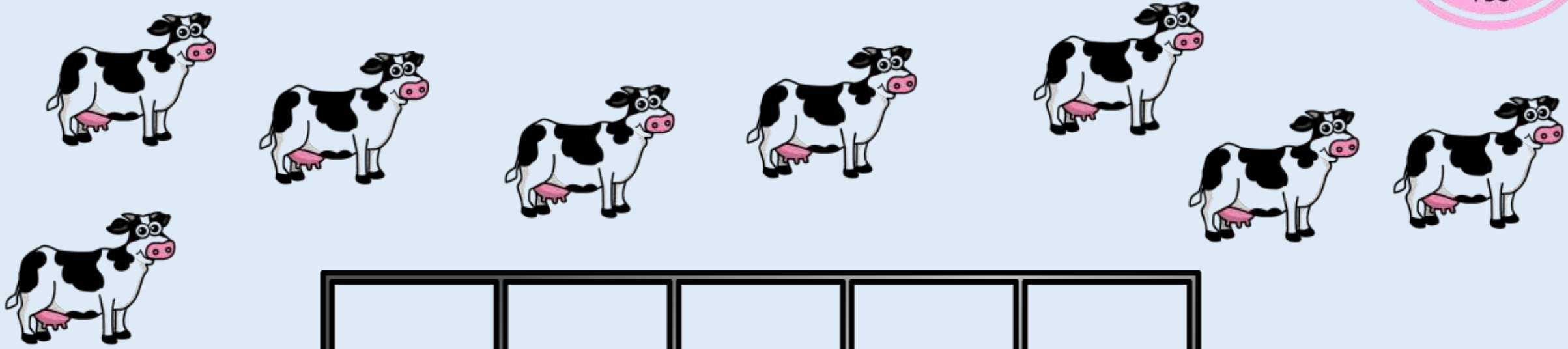
There are ___ frogs, so I need ___ cubes/counters.

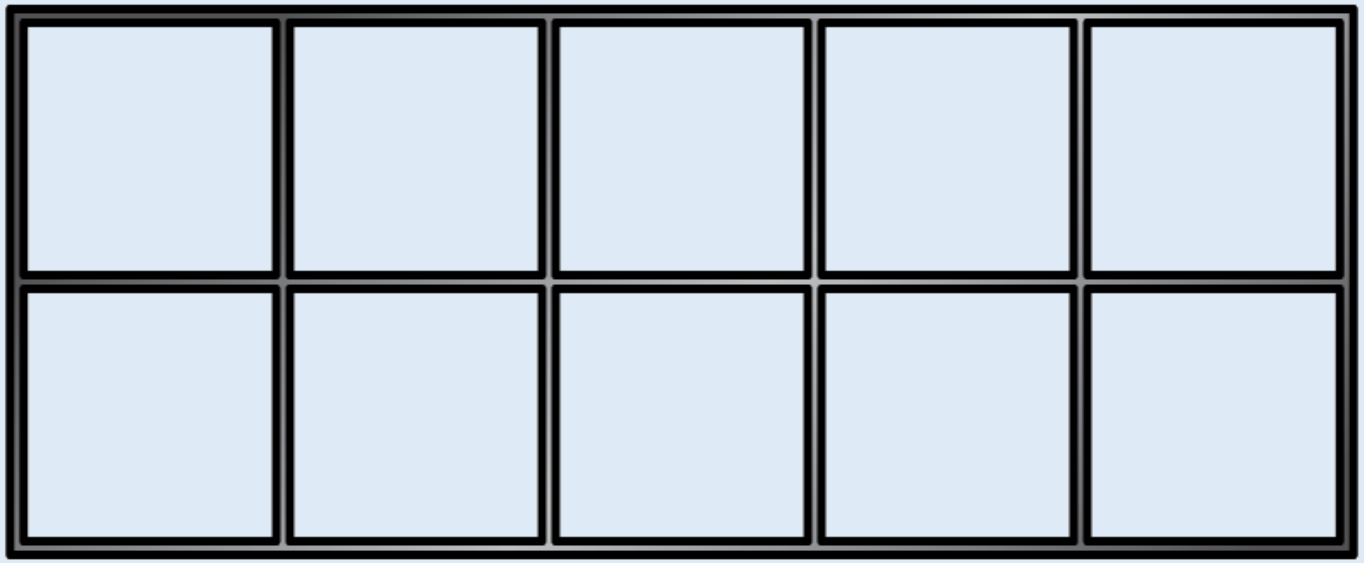
I do: I am going to represent the objects using **counters** ….

		
		
1	2	3

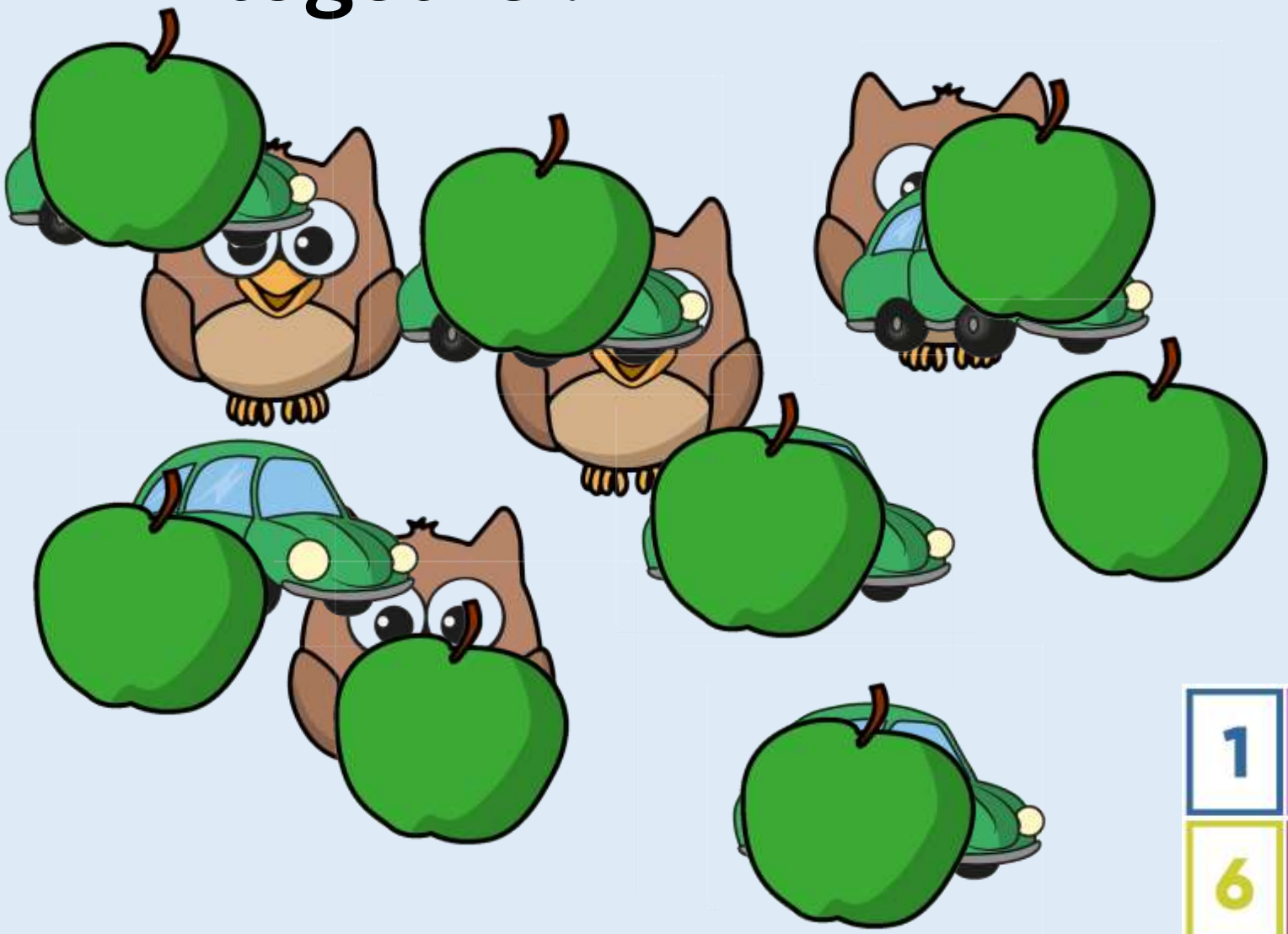
There are 3 stickers.

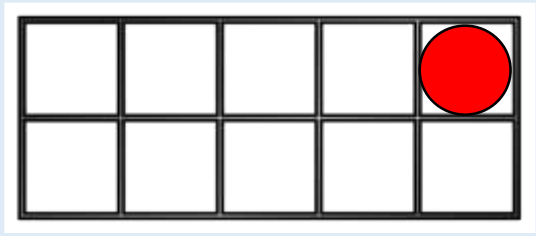
I do: I am going to represent the objects using **counters** ....





We do: Let's represent the objects together.





You do:

It's your turn to represent the objects using the resources on your table.

Your card

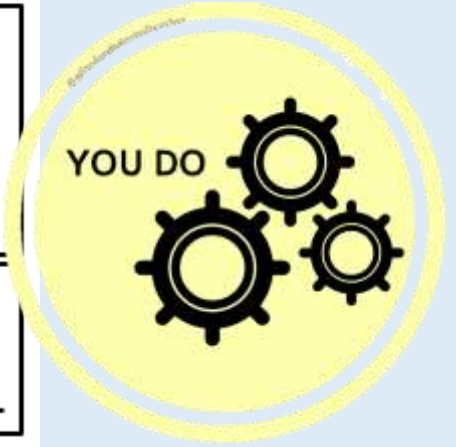
number

in words

on a tens frame

in objects

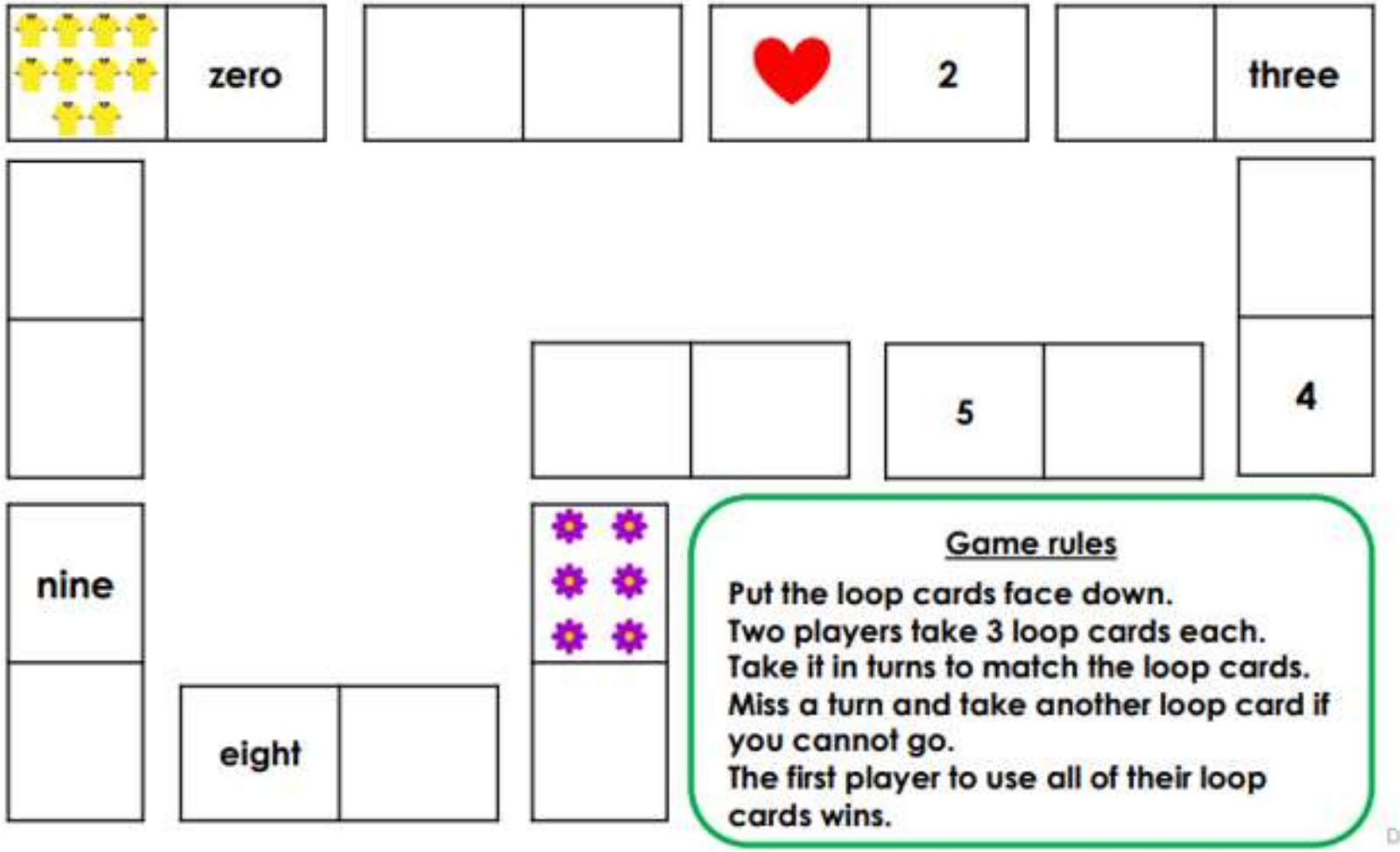
as Numicon



Problem-solving & Reasoning

Home learning

Before you can play the game you will need to complete the loop.



Thank you!

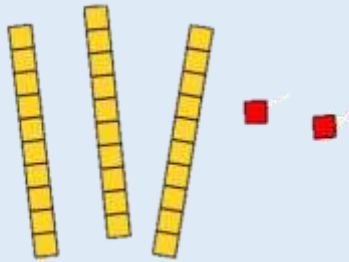
The following slides will be available for you to access on our website, they include additional information on:

- Practical resources
- Online resources
- How to help at home

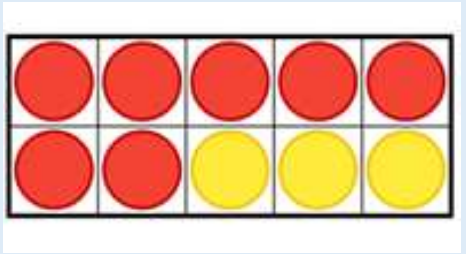
If you have any further questions or feedback please contact your child's class teacher or Mr Withers.

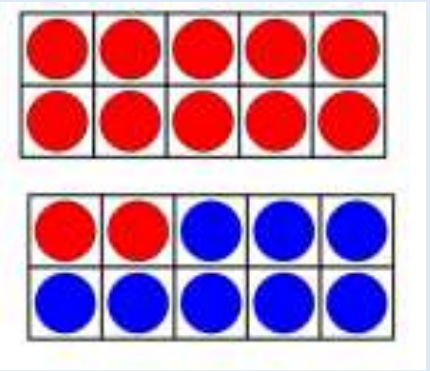
Mathematical Resources

Dienes or Base 10

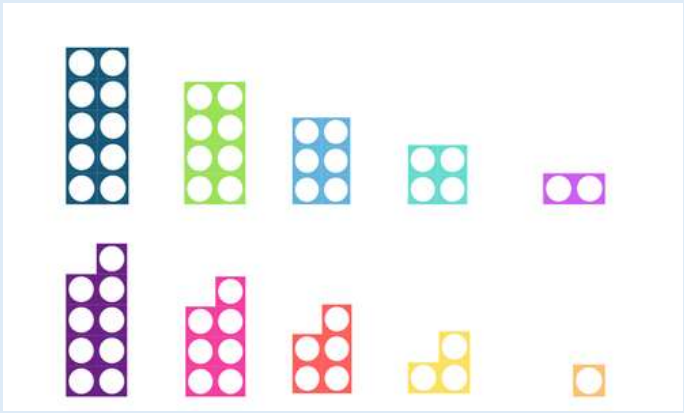


Tens frame





Multi link



Numicon

Mathematical Vocabulary

Tens and Ones

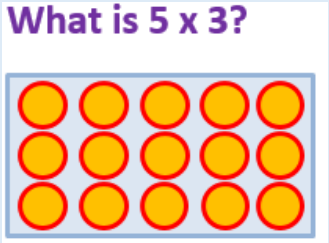
This is what we can break a number down into. We no longer refer to the ones as units.

Partition

This is when we break a number down into parts. This can be into tens and ones or another way.

Array

A pictorial representation, usually shown as rows of dots, to help visualise multiplication and division.



Commutativity

The understanding that addition and multiplication can be done in any order.

For example: 3 + 1 or 1 +3

Inverse Calculation

Using the opposite of an operation to either reverse or check a calculation.

For example: addition is the inverse of subtraction

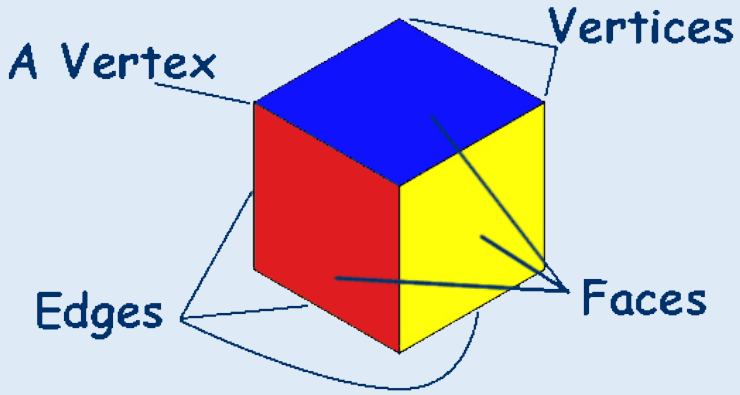
$$10 + 2 = 12$$

$$12 - 10 = 2$$

$$12 - 2 = 10$$

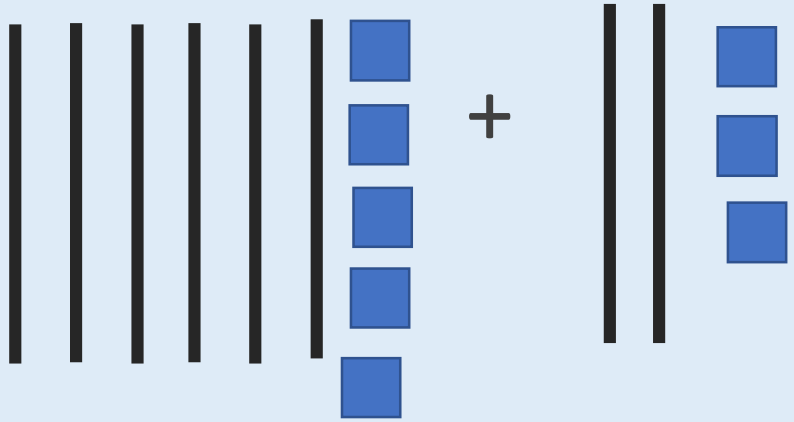
Vertex or Vertices

Also known as a corner or corners. This is used to refer to the point at which faces meet on a 3D shape or where two sides meet on a 2D shape.



Practical and Written Methods - Addition

65+23=88

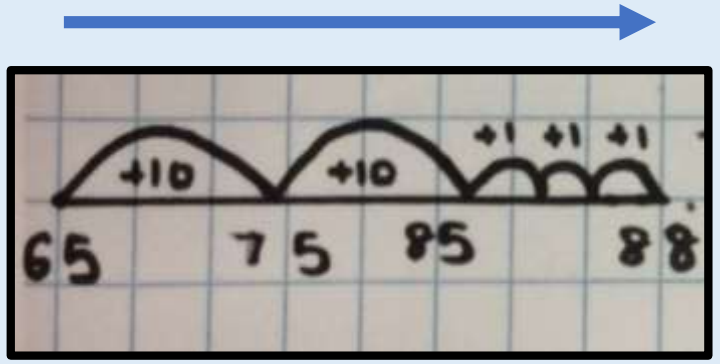


=10

=1

More
Add
Plus

65+23=88

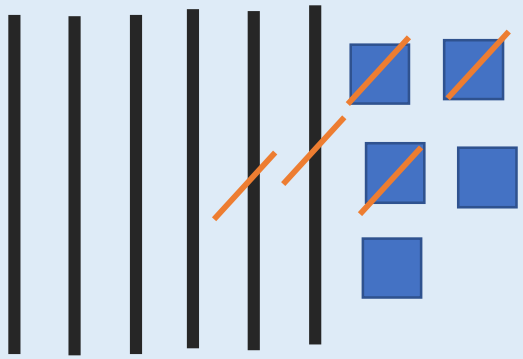


60 + 20 = 80

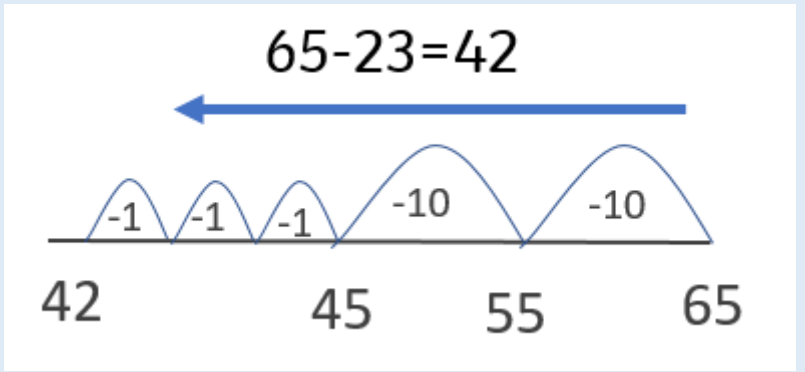
5 + 3 = 8

80 + 8 = 88

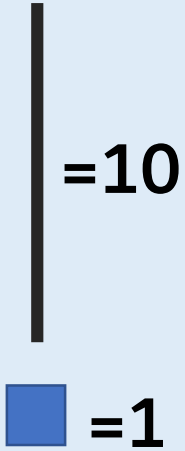
Practical and Written Methods – Subtraction



65-23=42



Less
Fewer
Take away
Subtract



=10

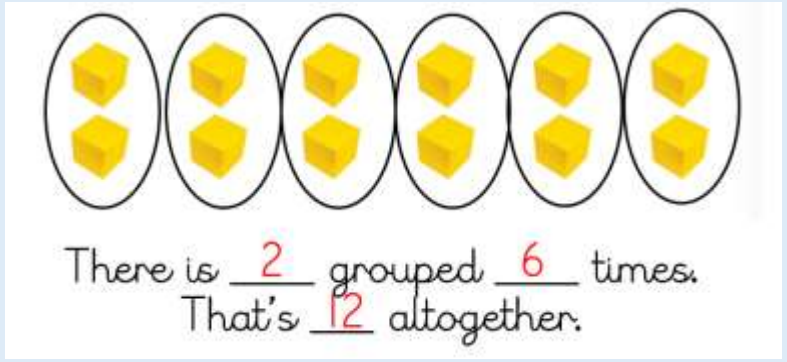
=1

60 - 20 = 40

5 - 3 = 2

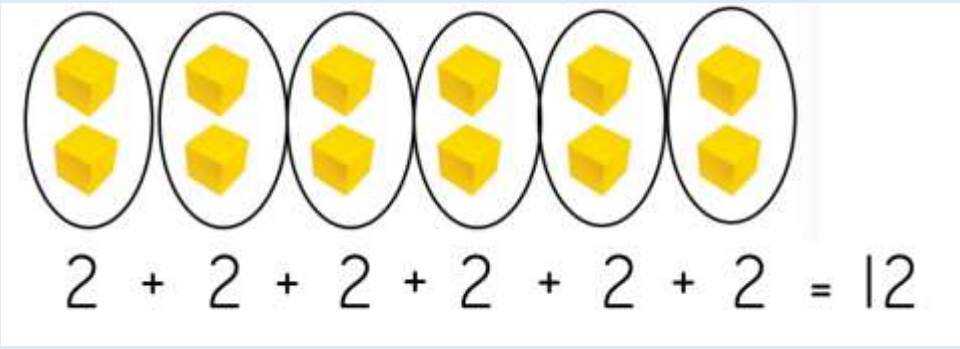
40 + 2 = 42

Practical and Written Methods – Multiplication

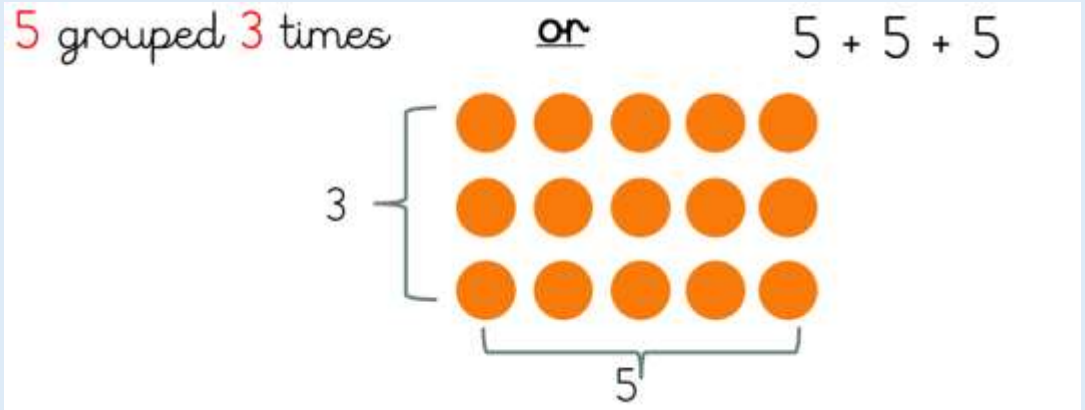


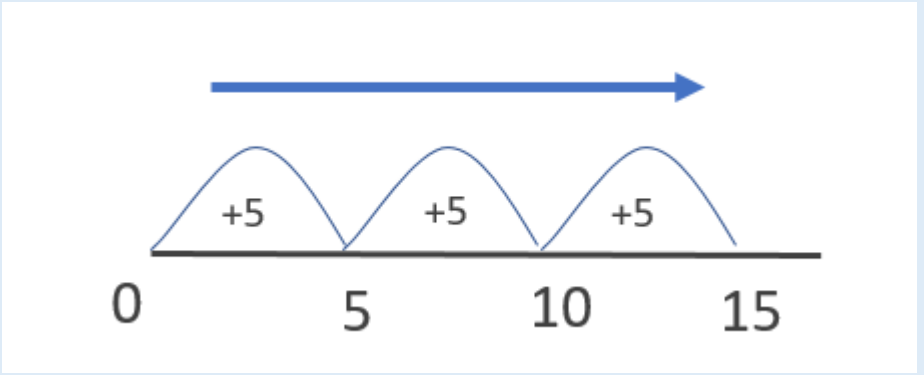
2 x 6 = 12

More
Lots of
Groups of



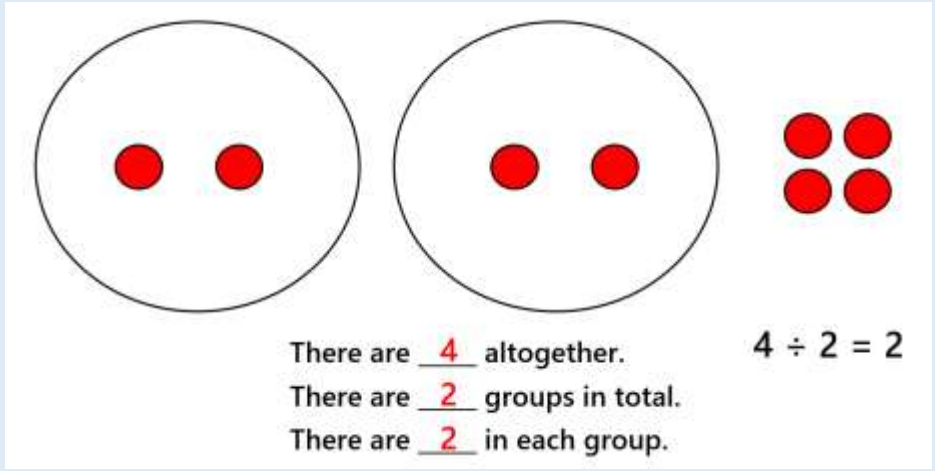
Repeated addition





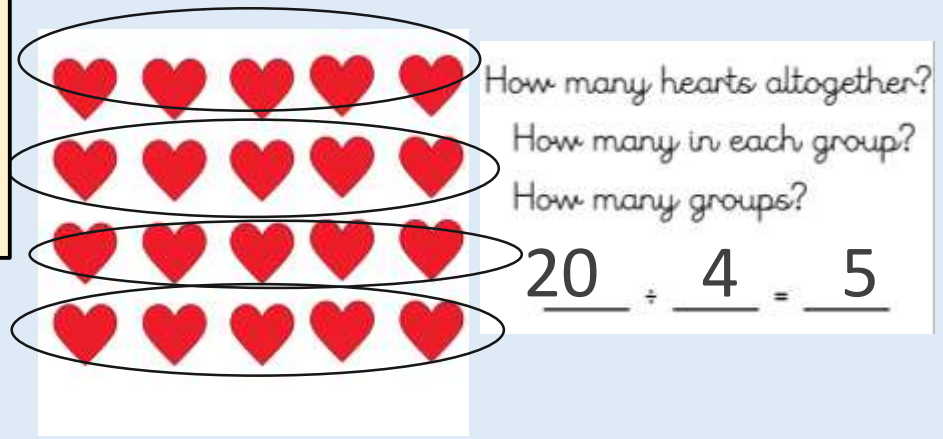
Practical and Written Methods - Division

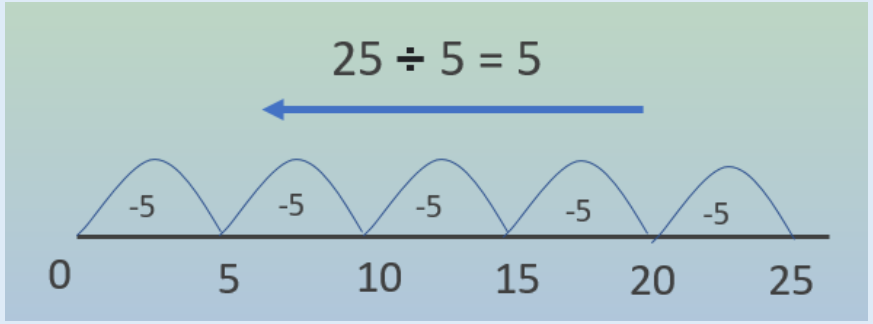
Sharing



Divide
Share
Groups of
Equal parts

Grouping





25				
5	5	5	5	5

What can help maths at home?

- Fluency games such as Hit the Button
- Maths as part of every day life
- Quick and accurate recall
- KIRFs practise little and often

KIRFs – Key Instant Recall Facts

- Each half term, we will send home the key number facts that your child will need to become familiar with
- Please spend time practising these facts with your child, as it will be extremely beneficial to their maths learning
- The KIRFs are half term specific, meaning that they increase in complexity throughout the academic year

How you can help your child at home

- **Encourage a positive mindset in Maths.**
  - Tell them how good they are. Let your child know that they have unlimited maths potential and that being good at maths is all about working hard.
  - Explain how much you enjoy the subject.
  - Always be encouraging and never tell them they are wrong when they are working on maths problems. Instead find the logic in their thinking. For example if your child multiplies 3 by 4 and gets 7, say – Oh I see what you are thinking, you are using what you know about addition to add 3 and 4, when we multiply we have 4 groups of 3…
- **Encourage good number sense.**
  - For example, when working out 29 + 56, if you take one from the 56 and make it 30 + 55, it is much easier to work out. The flexibility to work with numbers in this way is what is called number sense and it is very important.
- **If you are worried about confusing your child with a different method when supporting your child with home tasks, use our calculation policy on the school website to support you child with home learning.**
  - http://www.hagleyprimary.org.uk/Maths/
- **Encourage your child to play Maths games and puzzles.**
  - The next two slides have a list of apps and websites you and your child may enjoy.

Useful websites and apps

Useful Websites for Children

http://nrich.maths.org
http://amathsdictionaryforkids.com
http://www.ictgames.com/resources.html
http://www.ilovemathsgames.com
http://www.mathsisfun.com
http://www.mathszone.co.uk
http://www.primarygames.co.uk
http://www.topmarks.co.uk
https://ec1.educationcity.com
http://www.bbc.co.uk/education
http://resources.woodlandsjunior.kent.sch.uk/maths/index.html
http://www.mathsisfun.com
http://www.primaryresources.co.uk
https://ttrockstars.com/login

Useful Websites for Parents/Carers

http://ncetm.org.uk
http://nrich.maths.org/frontpage
http://www.oxfordowl.co.uk/maths-owl/maths
http://www.maths4mumsanddads.co.uk/index.php

Useful websites and apps

App icon	Developer	Topic
	Multiplication genius x19 free	Times table multiplication quiz
	Mathseeds: Fun Maths games	Maths games: four operations and place value
	Prodigy Math Game	Game with maths activities
	Doodle Maths: Primary Maths	Games and quizzes
	Times Table Rock Stars	Multiplication and division
	Numbots (For KS1)	Addition and subtraction
	White Rose One Minute Maths	Maths quizzes