

ST. AUGUSTINE'S CATHOLIC PRIMARY SCHOOL

We would like to hear <u>from you!</u>



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"Parental attitudes and confidence in math can significantly influence a child's mathematical development. When parents convey positive attitudes towards math and display confidence in their own math abilities, children are more likely to approach math with enthusiasm and develop a growth mindset towards learning."

- Jo Boaler



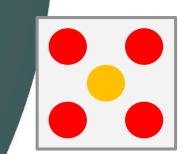
A large majority of parents of elementary-aged children are left feeling unable to help their children in math or are inadvertently passing on their own math anxieties to their children.

-Partnering With Parents in Elementary School Math



Mastering Number at Home

Reception, Year 1 & Year 2







Aims of the session

- To share with you some of the things your child will be learning in school
- To improve your confidence in helping your child with maths
- To launch the 5 week homework project



Why work with your child?

The help that parents give their children at home has a very significant impact on their learning.

Development Matters (2023)



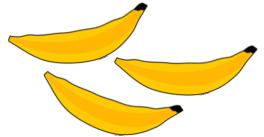
How does Mastering Number help us to teach maths in school?

The Mastering Number Programme in Reception will help your child to develop good *number sense*.

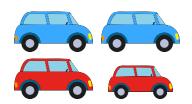
Some of the things they are learning include:



Counting



Recognising small numbers of objects and making their own collections



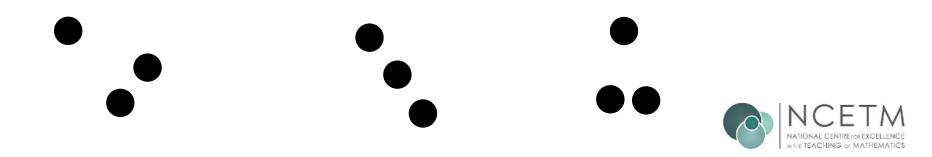
Know different ways to 'make' (compose) a number



Subitising

Subitising is the ability to recognise a *small quantity* of objects *without the need to count*.

Sometimes when we subitise we can see two groups at once; if we know that 3 can be 'made' of 2 and 1, then we know how many there are altogether without counting.



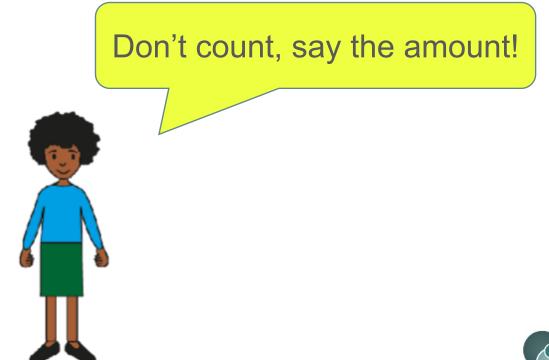
How will knowing how numbers are 'made' help?

If children know that **4 can be made of 3 and 1**, they can apply this knowledge later on to see that:

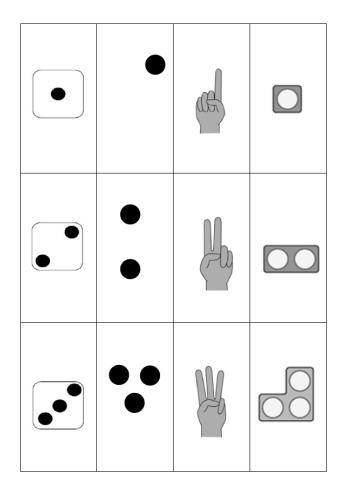
30 and 10 is 40 300 and 100 is 400 and that; 400 take away 100 is 300



Play 'Subitising to 3 snap'







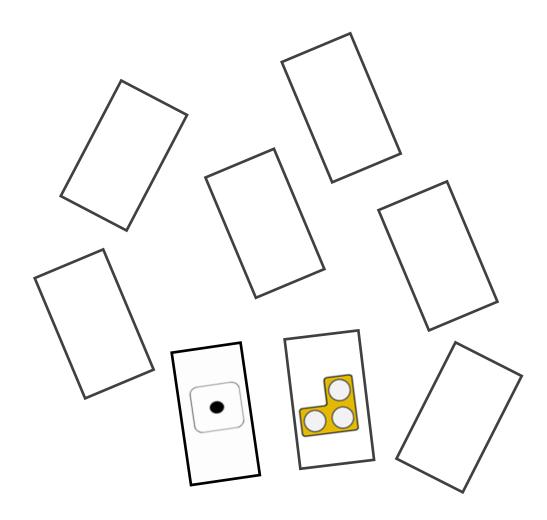
Grown-ups:

Please cut these into 12 separate cards and hand them to your child.

Children:

Please spread the cards out and place them *face-down* in front of you. (Ask the grown-up for help if unsure).

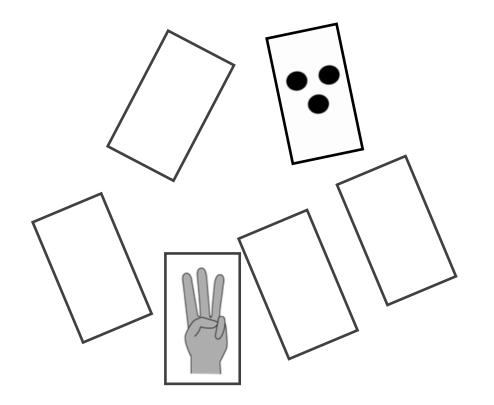




Take turns to turn two cards over and say the number you can see.

If the numbers do not match, place them back and try to remember where they are in case you need them later.





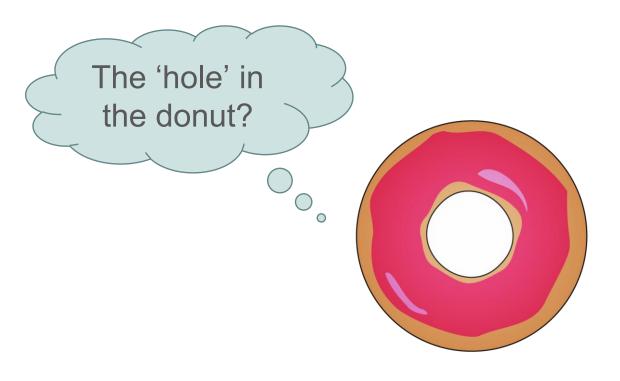
When it is your turn, if you turn over two cards that are the same, you can keep them.

The winner is the person with the most cards when they are all used up.

In Weeks 3 and 5, you will receive extra cards to practise subitising with bigger numbers. Don't throw your cards away!



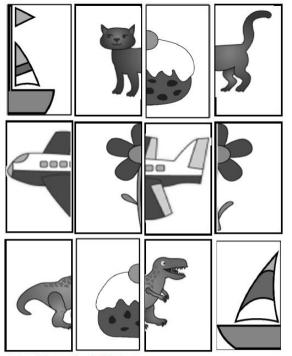
Play 'Part-part-whole'







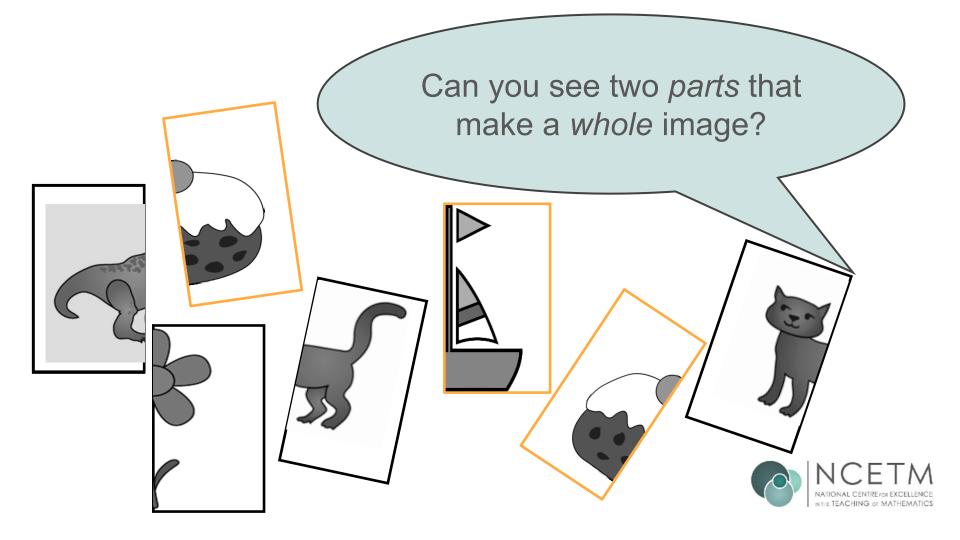
Find 2 parts that make a whole.

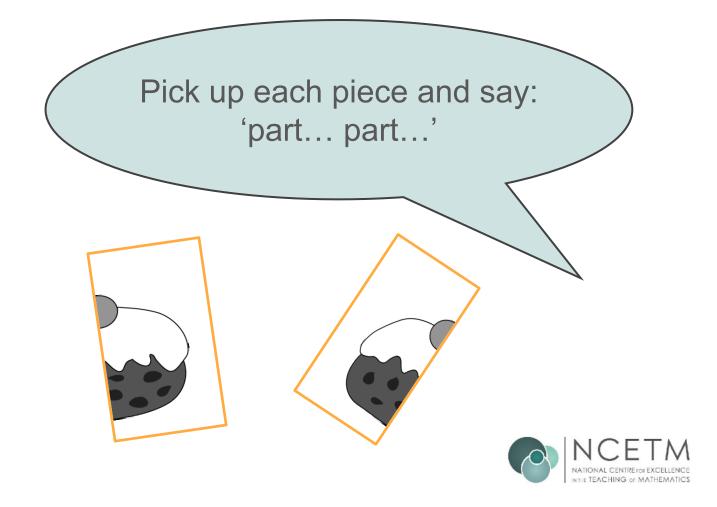


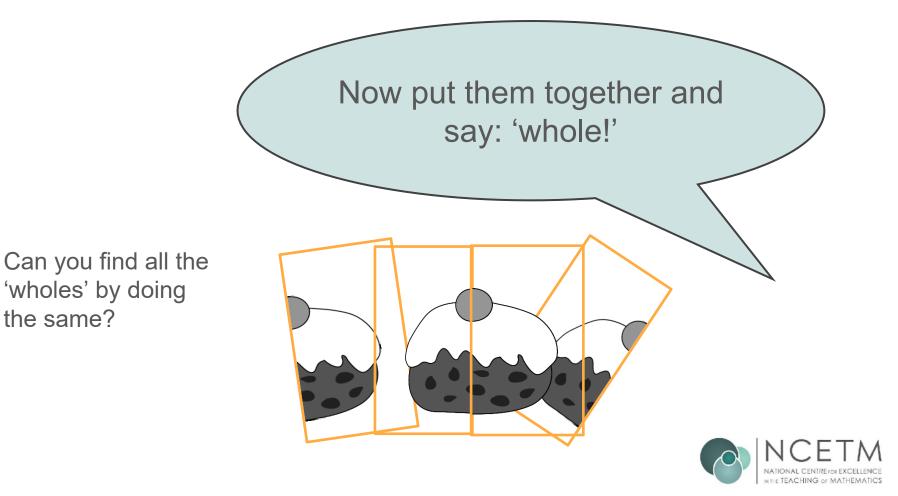
Cut carefully around each of the images. Lay the cut cards face-up on a flat surface in front of you. Take it in turns with the grown-up. Look for two images that look like they are part of a whole. Pick them up and say 'part'. Put them together and say 'whole.' Grown-ups will need to carefully cut out these cards.

Children: place the cards *face-up* so you can see the pictures and spread the cards out in front of you.

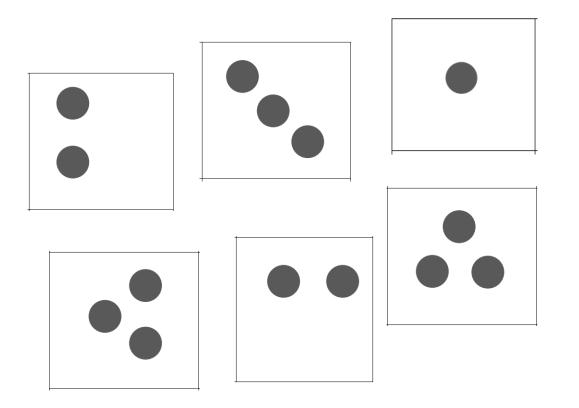








Part-part-whole with dots



In Week 3, you will play 'part-part-whole' with dots.

One person will pick up a card, and the other person must pick up the card that will 'make 4'.



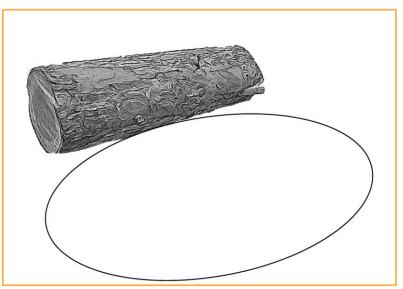
Play '3 frogs on a log'

You will need...



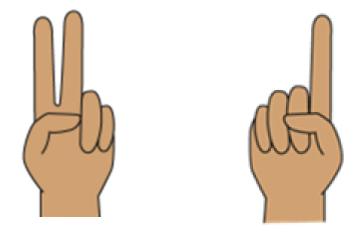
3 frogs (counters)

The frogs on a log sheet



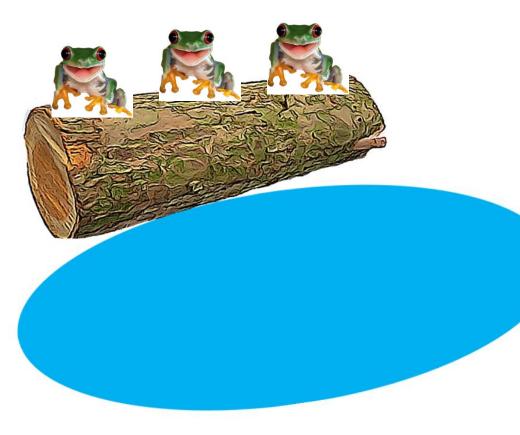


You will also need to show the numbers on your fingers!





Put 3 frogs on the log



Ask your child

Show with your fingers: How many are on the log? How many in the pool? How many altogether?



Put 1 frog in the pool.

Ask your child

Is it still three? Show with your fingers: How many are on the log? How many in the pool? How many altogether?



Put another frog in the pool.

Ask your child

Is it still three? Show with your fingers: How many are on the log? How many in the pool? How many altogether?



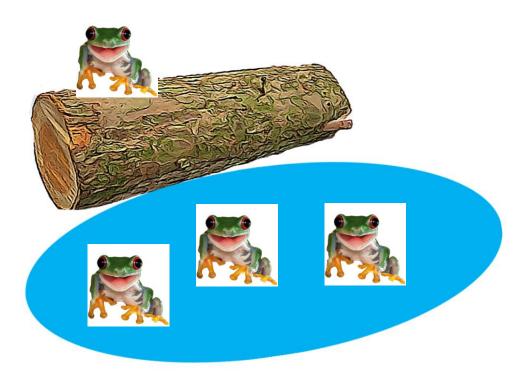


Put another frog in the pool.

Ask your child

Is it still three? Show with your fingers: How many are on the log? How many in the pool? How many altogether?





In Week 4, you will play this game again with 4 frogs... or even 5!



Play '3 or NOT 3?'

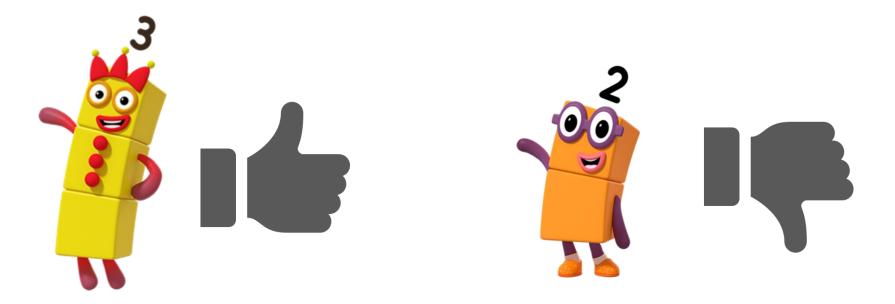
This activity involves spotting when there are 3 of an object or explaining why there are NOT 3.



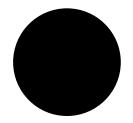


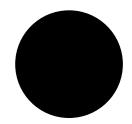
Week 2 (Image © Alphablocks)

Put your thumb UP if you can see 3, and down if it is NOT 3.



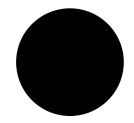


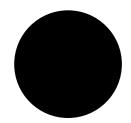






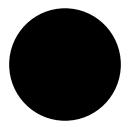
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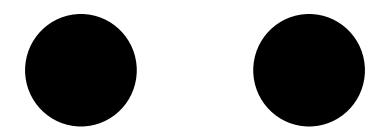






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Play '3 or NOT 3?' with counters

You will need 5 counters and something to cover them.





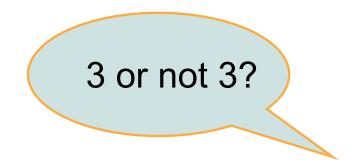
Grown-ups, hide some counters under the towel.





Reveal them quickly and ask your child...

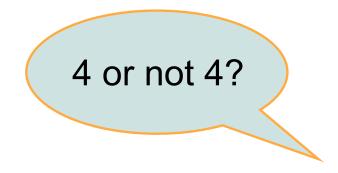






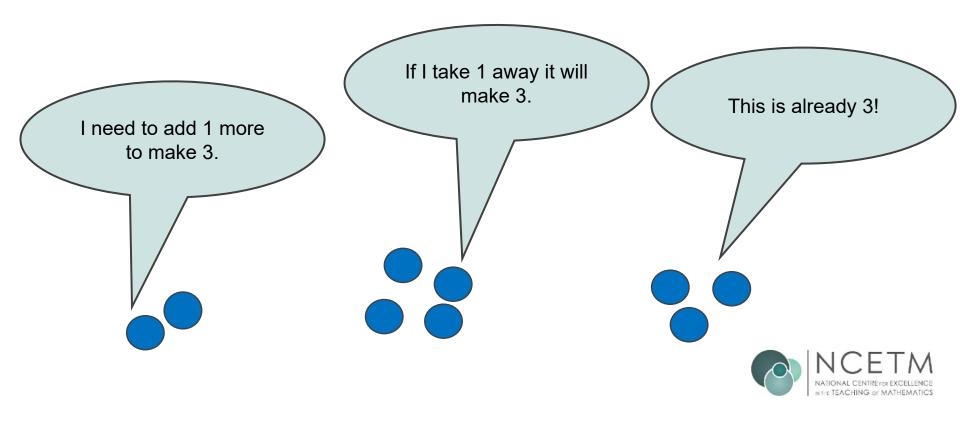
In Week 4, you will try this with different numbers...







Now ask: 'What do you need to do to make it 3?'



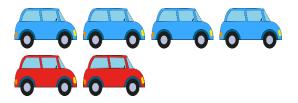
How does Mastering Number help us to teach maths in school?

The Mastering Number Programme in Year 1 will help your child to develop good *number sense*.

Some of the things they are learning include:



Recognising small numbers of objects without having to count them



Know different ways to 'make' (compose) a number

How do we develop good number sense?

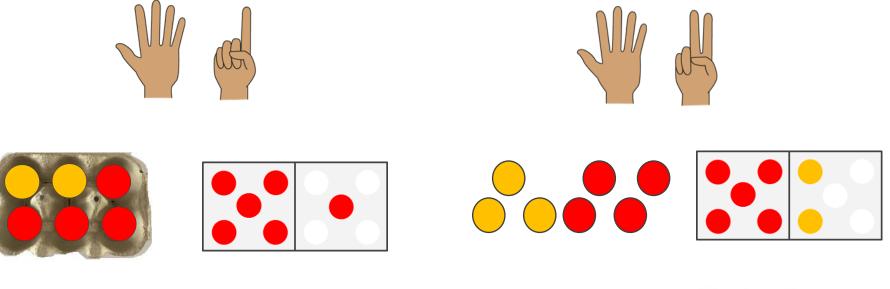
Knowing how numbers are 'made' will help children later on with calculations.

I know that 6 is made of 4 6 - 2 and 2 so I will also know ... 60 - 20 40 + 200.4 + 0.2400 + 2000.6 - 0.2



Let's look at 6 and 7!

Finding all the ways that 6 and 7 are 'made' and then doing activities that give them a chance to practise will help children.





Recognising small 'numbers'

For all of the activities you will be doing at home, we want children to use a special skill called 'subitising'.



Get your fast eyes ready! Show on your fingers and tell your grownup how many dots you can see!

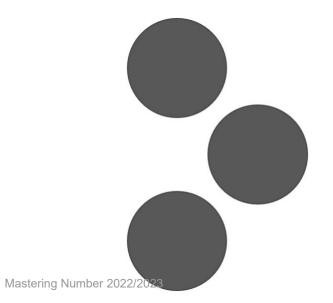




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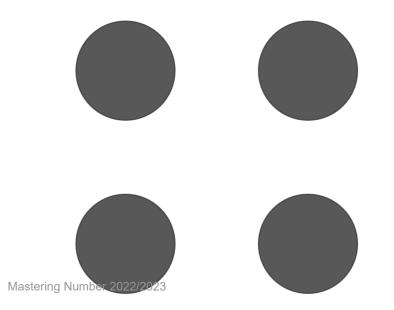






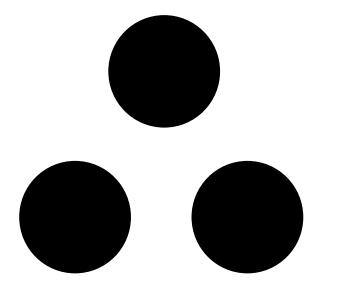












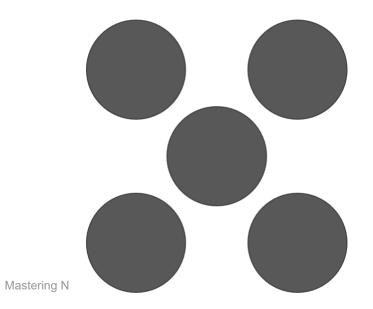
Mastering Number 2022/2023





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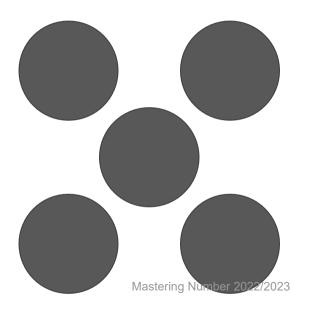






Mastering Number 2022/2023







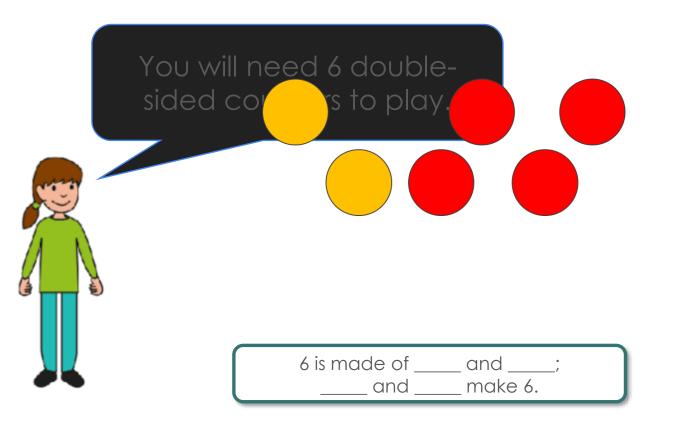


Home learning tasks

- Each week, you will be given a sheet that explains some activities that children can do with their grown-up.
- In Year 1, the tasks will all be about finding ways to make 6 and 7, but these tasks could be used for other numbers later on.
- In all of the tasks, children should be encouraged to 'see' the amount of objects without counting – just as they did in the previous activity.

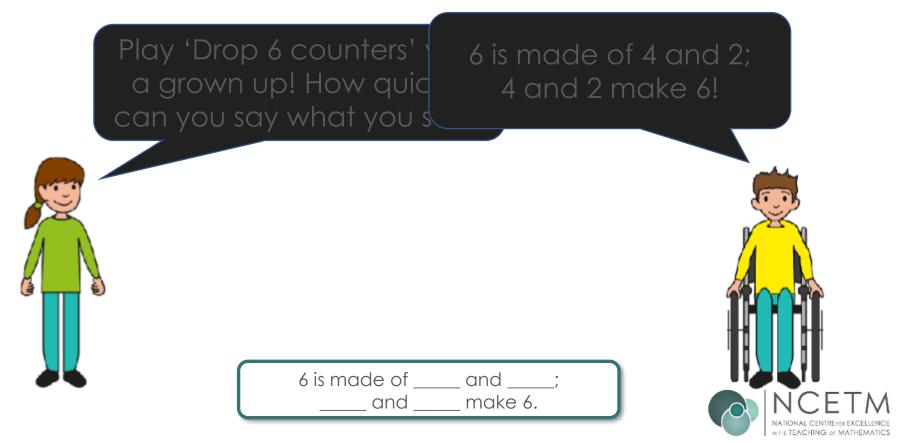


Play 'Drop the counters'





Week 1



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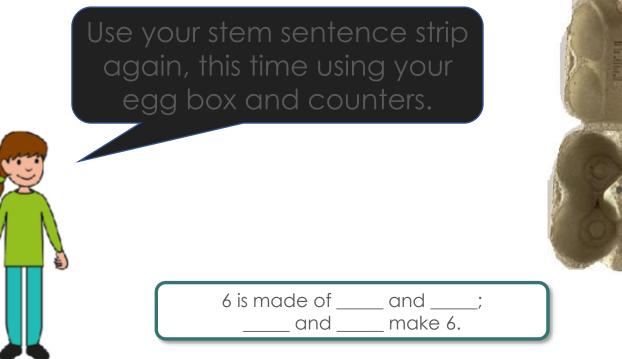
Year 1, Week 1 – Drop the counters

Monday				Wednesday				Friday			
Player 1		Player 2		Player 1		Player 2		Player 1		Player 2	
Colour 1	Colour 2 yellow	Colour 1	Colour 2	Colour 1	Colour 2	Colour 1	Colour 2	Colour 1	Colour 2	Colour 1	Colour 2
5	1	5	1	5	1	5	1	5	1	5	1
4	2	4	2	4	2	4	2	4	2	4	2
3	3	3	3	3	3	3	3	3	3	3	3
2	4	2	4	2	4	2	4	2	4	2	4
1	5	1	5	1	5	1	5	1	5	1	5



Week 1

Play 'Egg Box 6' with counters







Week 1



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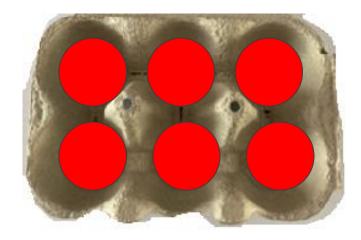






Place all counters red side up

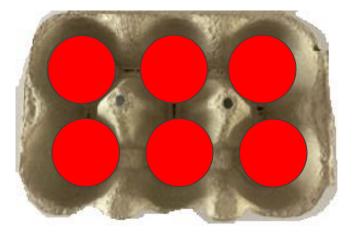
How many red counters?



How many yellow counters?



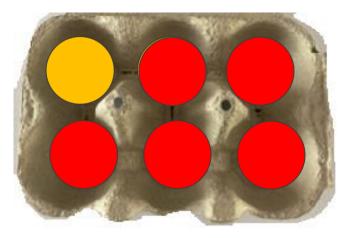
Turn over one counter at a time so you can see the yellow side



6 is made of 1 and 5; 1 and 5 make 6!

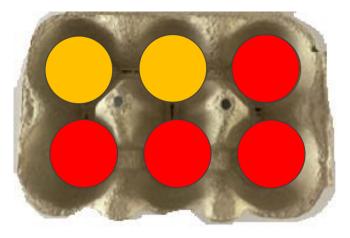
6 is made of	and;
and	make 6.





6 is made of	and;
and	make 6.



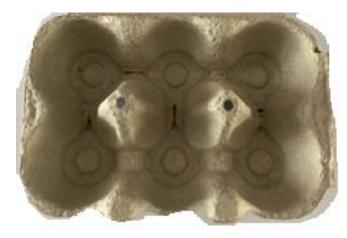


6 is made of	and;
and	make 6.



Play 'Egg Box 6' with objects

Gather 6 objects that can fit in the spaces in the egg box.

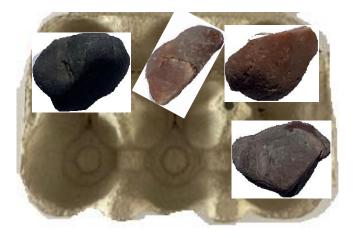






Week 2

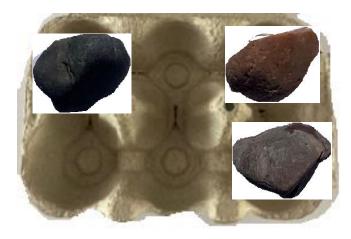
Put some of the objects in the How many more to egg box and hide the other make 6?



needs _____ to make 6.



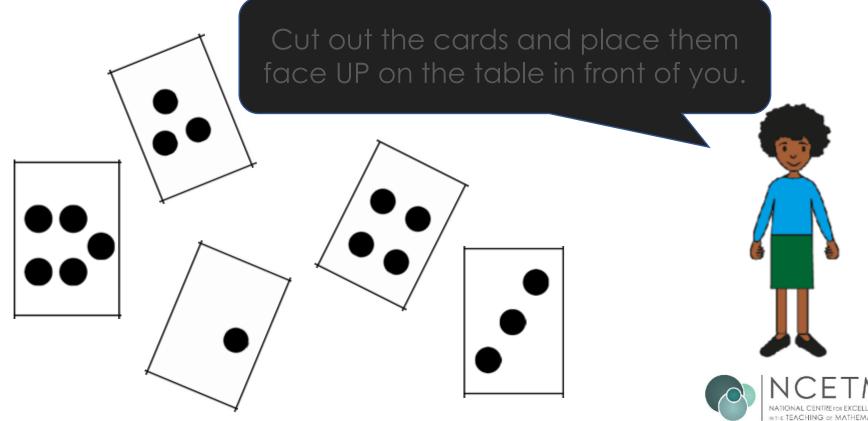
Play this again using different numbers of objects.



____ needs _____ to make 6.

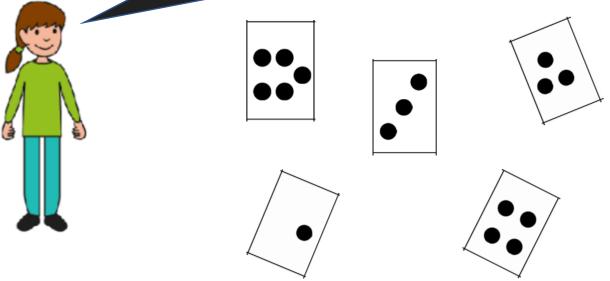


Find pairs to 6 with dots



Play: 'Find pairs to 6' with dot cards

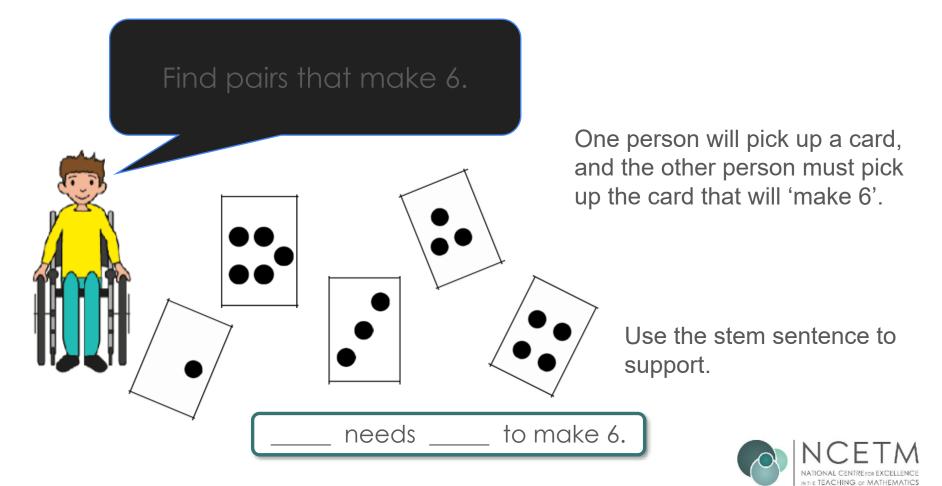
Let's practise remembering the ways that 6 can be made.





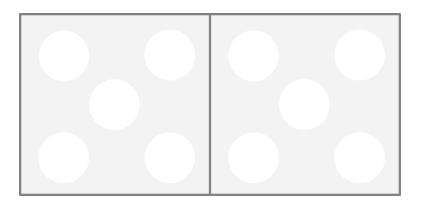
Week 2

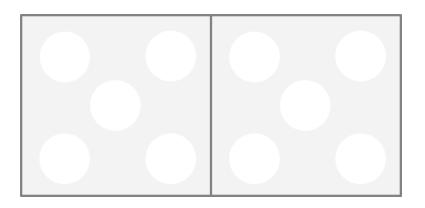
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Week 2: In Week 4, children will find pairs of numbers that make 7 with dots.

Play 'Copy my 7'





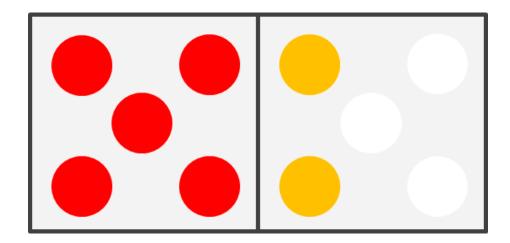
You will need two of these for this activity.



Week 3

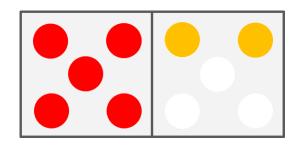
Grown-ups: make this arrangement and briefly show it to your child.

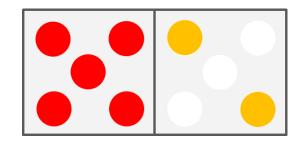
Children: can you copy the arrangement exactly?

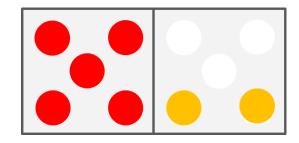


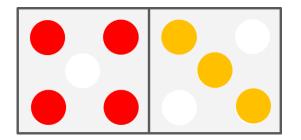


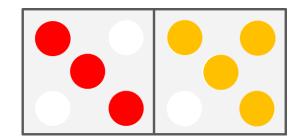
Now try some of these arrangements.

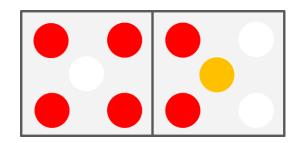






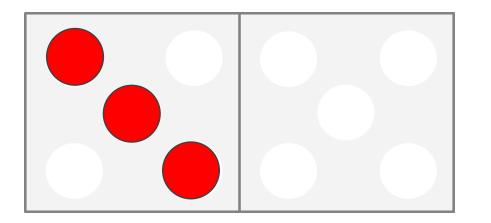








Play 'Make it 7'



You will need 10 counters altogether.

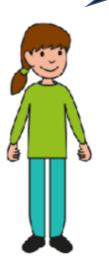
Grown-ups – Place some counters (up to 5) on one side of the frame.

Children – place counters on the other side to make 7.



Play 'Make it 7'

Each player needs to have some doublesided counters (up to 10 each).



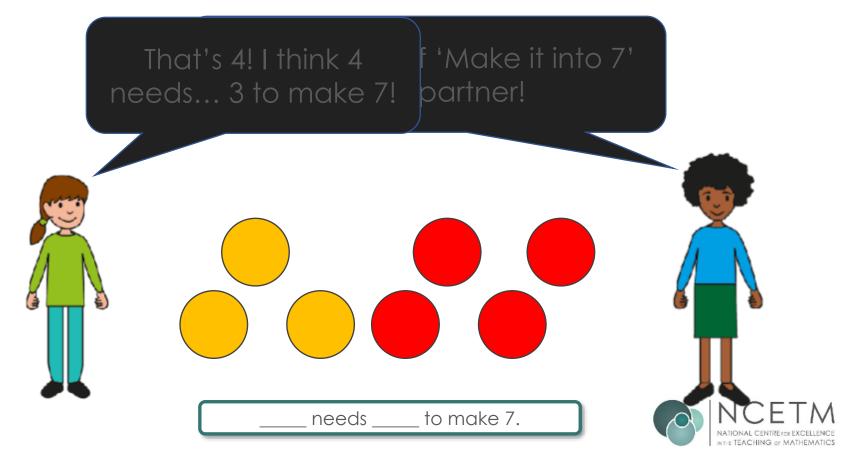
One player should put some counters down on the table.

The second player needs to make 7 by adding the correct number of counters. Can you do it without counting?

Use the stem sentence to say how many more makes 7.

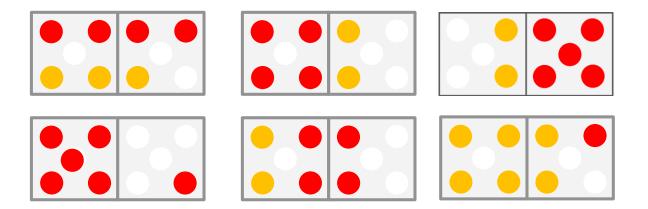


Play 'Make it 7'



Subitising – 6 or 7

• By the end of the five weeks, your children might well be able to subitise patterns with counters and say whether there are 6 or 7.





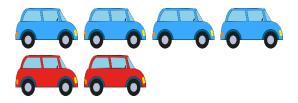
How does Mastering Number help us to teach maths in school?

The Mastering Number Programme in Year 2 will help your child to develop good *number sense*.

Some of the things they are learning include:

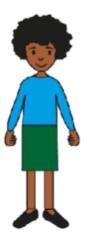


Recognising small numbers of objects without having to count them



Know different ways to 'make' (compose) a number How does knowing how numbers are 'made' help children?

5 + 3 = 8

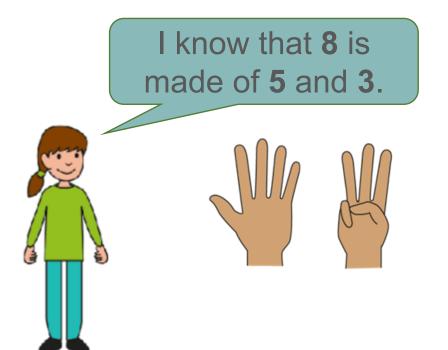


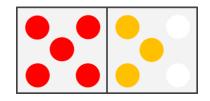
0.8 - 0.3 = 0.5

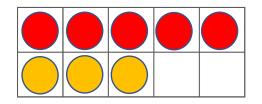


Looking at the numbers 6, 7, 8 and 9

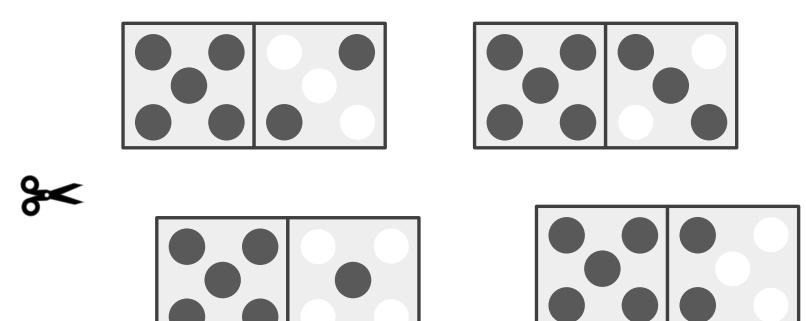
Children will learn that these numbers all have 5 'inside them', as well as seeing all the ways they can be made.







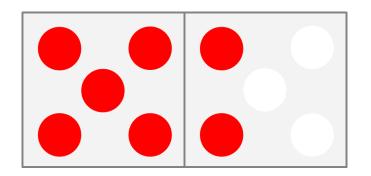
Prepare the matching activity by cutting out the cards

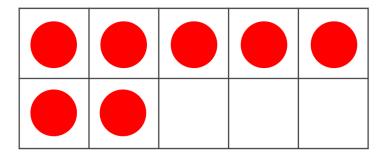


Play 'Copy my number'

Grown-ups: place 7 counters on the dice frame as shown.

Children: can you make the same number on the 10 frame showing it as '5 and a bit'?



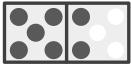


is made of 5 and	
5 and make	

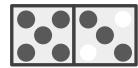
Play 'Shows 7 / Does not show 7'

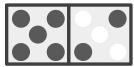
Sort the cards:

Shows 7	Does NOT show 7	



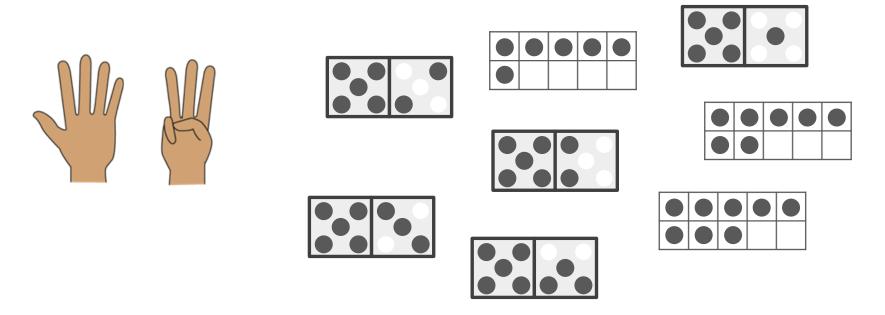


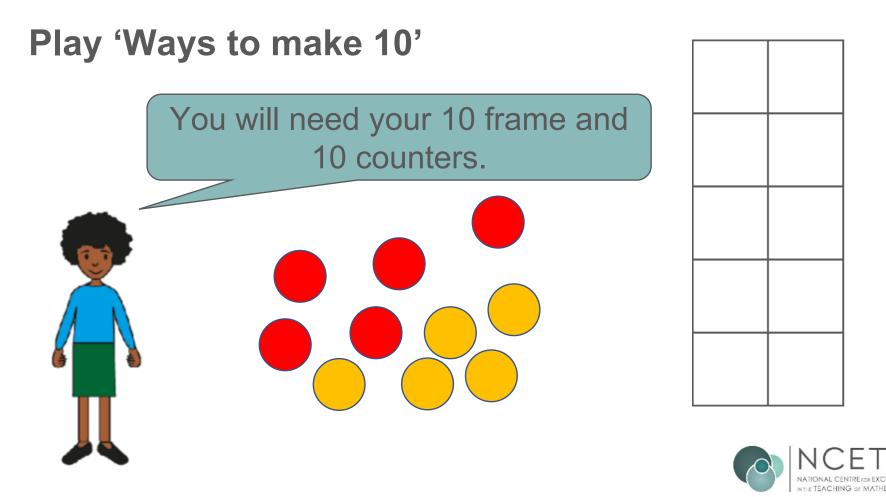


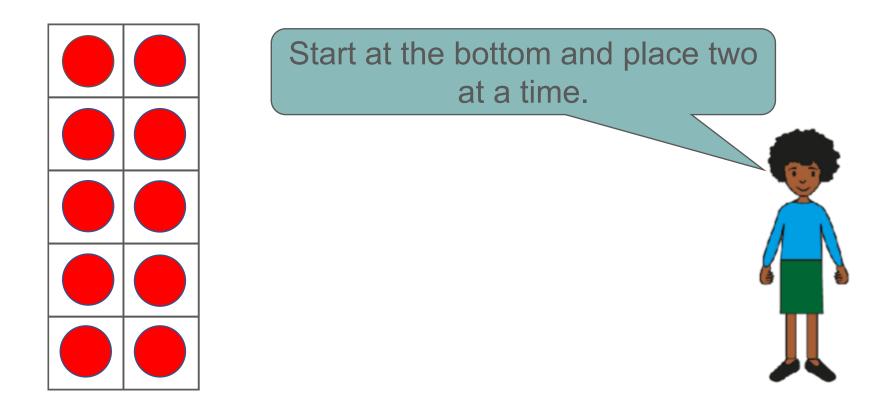


Play 'Match my fingers'

Grown-ups: use your fingers to show a number between 5 and 9. Children: can you find four cards that show the same number?

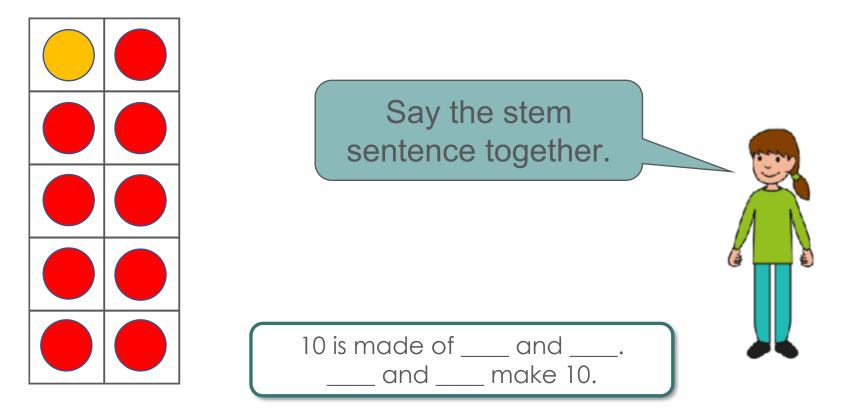


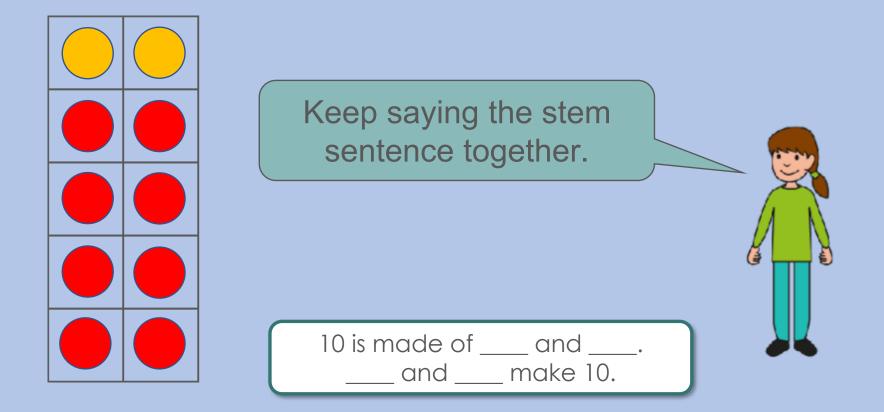


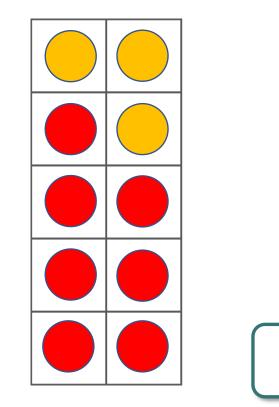


Children: Place the counters on the 10-frame so they are all red.

Grown-ups: turn one counter over at a time.

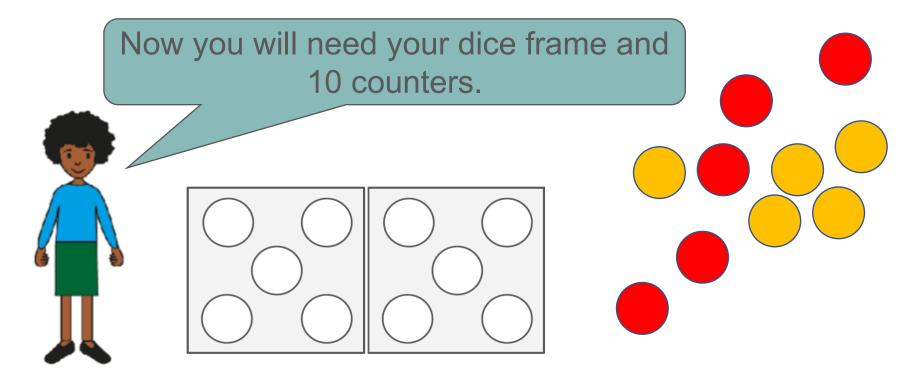




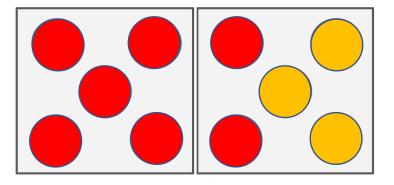


Continue doing this until all the counters are yellow. 10 is made of _____ and _____. ____ and ____ make 10.

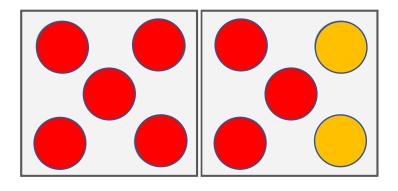
Play 'How many more to make 10?'



Grown-ups: Place 7 red counters onto the dice frame, using the '5 and a bit' pattern. Children: Fill the spaces with yellow counters and use the stem sentence.



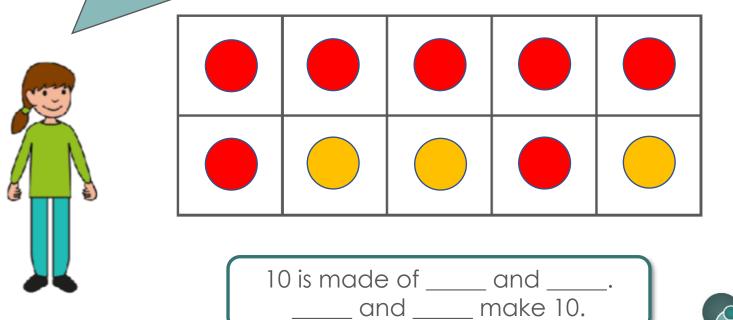
Grown-ups: Repeat using a different '5 and a bit' number (e.g. 6, 8 or 9).





In Week 3, children will be asked to say how many are needed to make 10 without filling the spaces.

You could play the same game using the 10-frame – this might be more tricky!

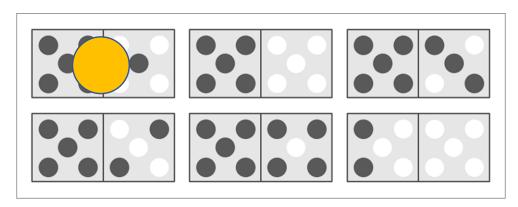




Introducing 'Make it 10 Bingo'

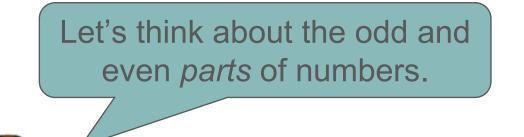
Player 1: pick a caller card and read it out Player 2: find the number that makes 10 and cover it with a counter.

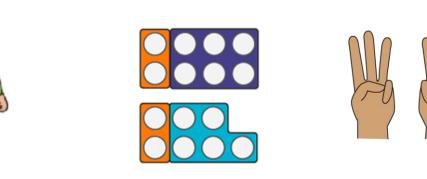
What does 4 need to make 10?

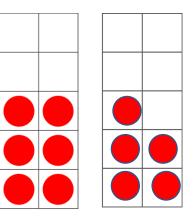


needs _____ to make 10.

Odd and even numbers 'inside' other numbers

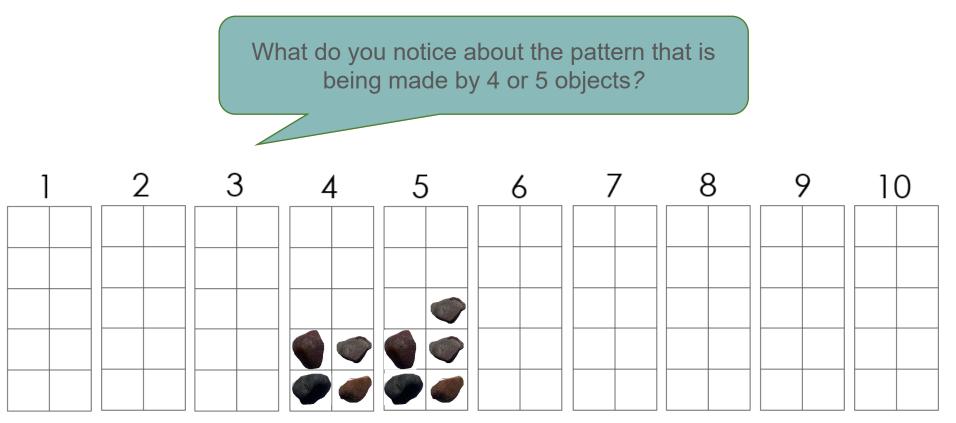






E

Use your objects to show the numbers on the 10-frames. Place them in the order shown.



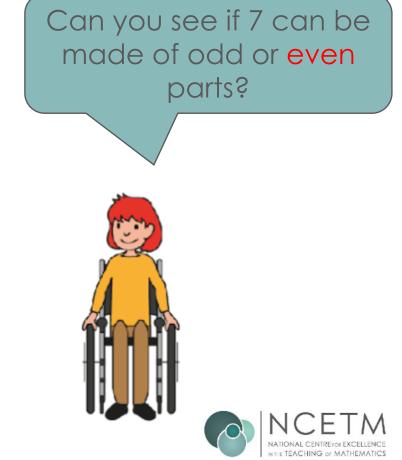
Play 'Drop 10 counters'



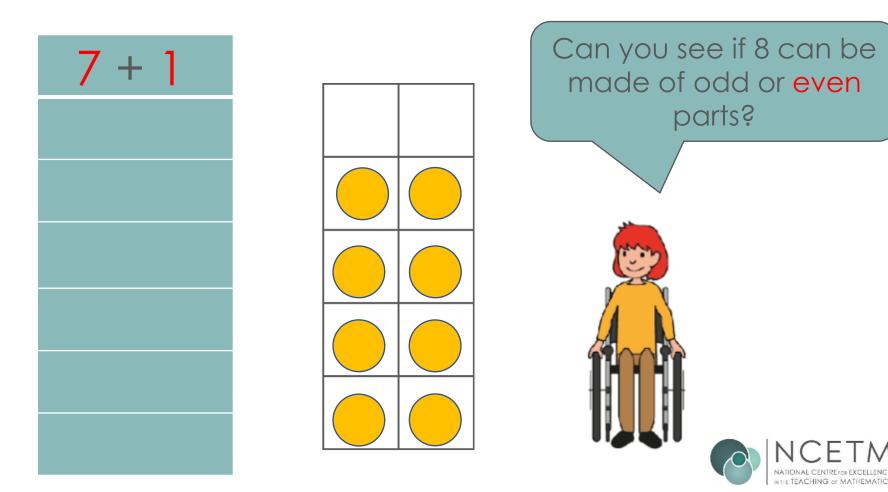


Week 4

Play 'Ways of making 7 and 8' 6 + 1 5 + 2 4 + 3 3 + 4 2 + 5



1 + 6



Week 5

Home Learning

Your child will bring home the games discussed today.

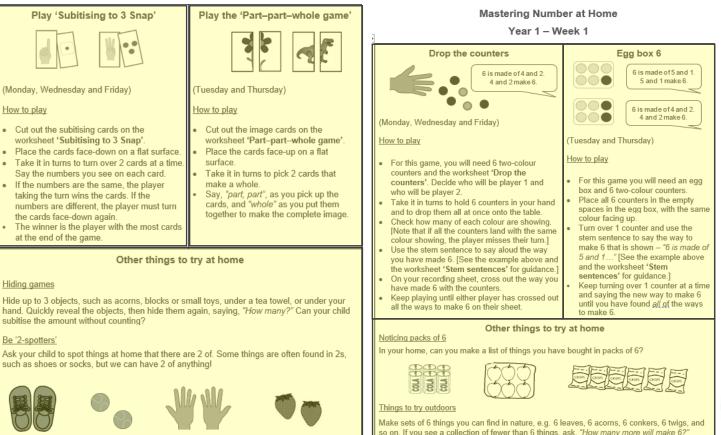
The home learning for this week is set out on a sheet with instructions. You will get a new sheet and some new activities each week.



Mastering Number at Home

Reception - Week 1





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Mastering Number at Home

My Diary - Reception, Week 1

Please complete your diary with your grown-up every day.



Mastering Number at Home

My Diary - Year 2 Week 1.

Please complete your diary with your grown-up every day.

Name:		

Day	Activities completed (please tick)	\checkmark	Grown-ups – comment about your child's learning
Mon	We played 'Copy my number.'	٧	Joe was able to copy all the numbers I showed.
Tues	We played, 'Shows7/ does NOT show 7.'		
Wed	We played 'Copy my number.'		
Thurs	We played, 'Shows7/ does NOT show 7.'		
Fri	We played 'Copy my number.'		
Grown- week.	ups – please indicate how you	and y	our child found the work this
Ve	ery confident It was	okay	Not too sure
			\bigcirc \bigcirc

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Day	Activities completed (please tick)	\checkmark	Grown-ups – comment about your child's learning
Mon	We played 'Subitising to 3 Snap'.		Played the game with Aunty Jane. Found it tricky but it was fun.
Tues	We played the 'Part-part- whole game'.		
Wed	We played 'Subitising to 3 Snap'.		
Thurs	We played the 'Part-part- whole game'.		
Fri	We played 'Subitising to 3 Snap'.		

Grown-ups - please indicate how you and your child found the work this week.

0 0



0 0

Name:

It was okay



Not too sure

0 0





Thank you!

