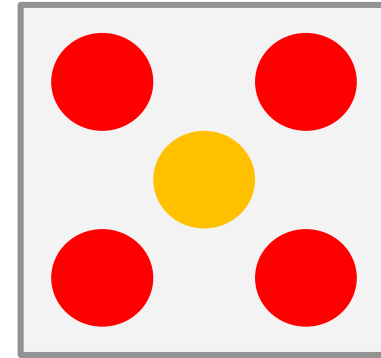


Mastering Number at Home

Year 2



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Aims of the session

- Share with you some of the things your child will be learning in school
- Improve your confidence in helping your child with maths
- Create some games and activities for use at home
- Share with you the home learning activities

Why engage you in your child's learning?

Research evidence suggests that when parents are engaged in their children's learning, outcomes for children can be improved.

Research also highlights the fact that parents feel they need more support to understand the current curriculum content and how they can support their child with their learning at home.

Desforges, C. and Abouchaar, A. (2003); Goodall, J. and Vorhaus, J. (2011);
The Education Endowment Foundation (2019); Sarjeant, S. (2021)

BBC News Report 2006

69% of parents do not help children with their homework because...


Everything has changed since they were at school and they are not confident in the new methods.

BBC News Report 2010

82% of parents feel unable to help pupils with their homework.

The ‘problem’ with maths

“My dad thinks that the way **he** does maths is easier and better than **my** way but he doesn’t understand my way and his way confuses me.”



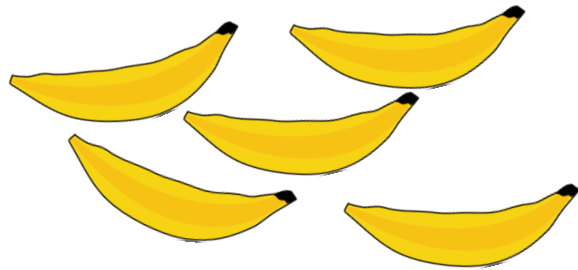
That’s not the way we do it in school!

Pupil – Catford High School

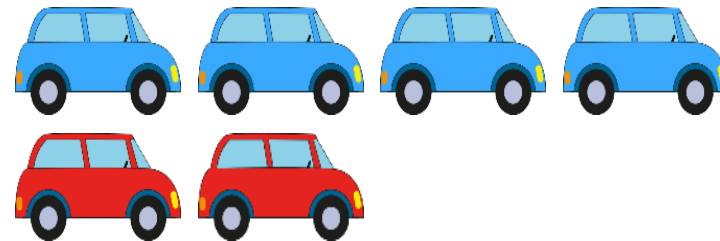
How does Mastering Number help us to teach maths in school?

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

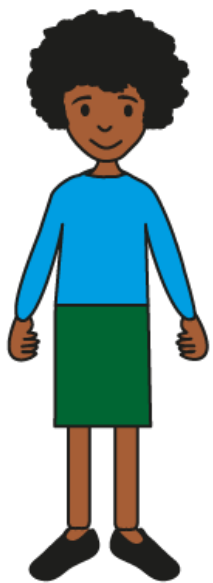


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How does knowing how numbers are 'made' help children?

I know that 8 is made of 5 and 3 so I will also know...

$$5 + 3 = 8$$



$$50 + 30 = 80$$

$$500 + 300 = 800$$

$$8 - 3 = 5$$

$$80 - 30 = 50$$

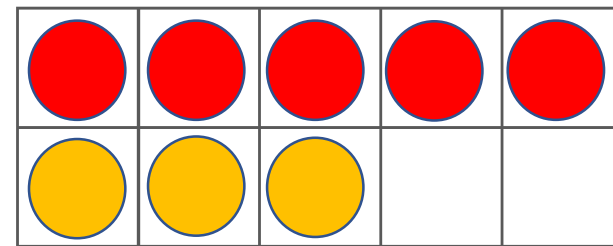
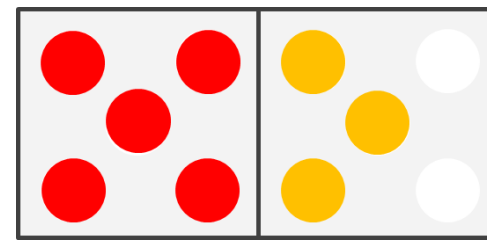
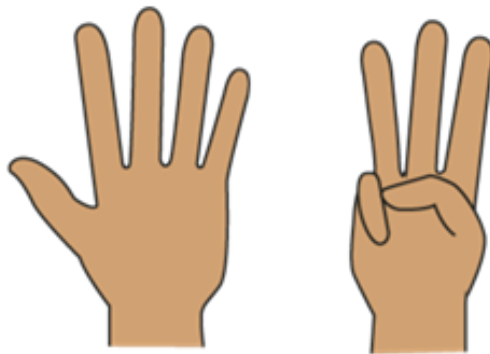
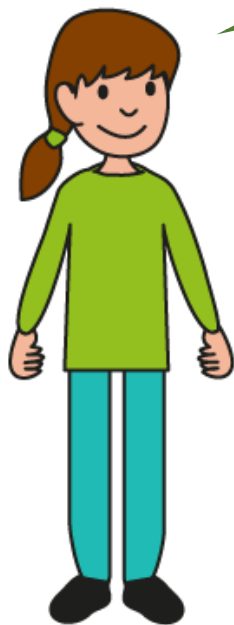
$$0.5 + 0.3 = 0.8$$

$$0.8 - 0.3 = 0.5$$

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.

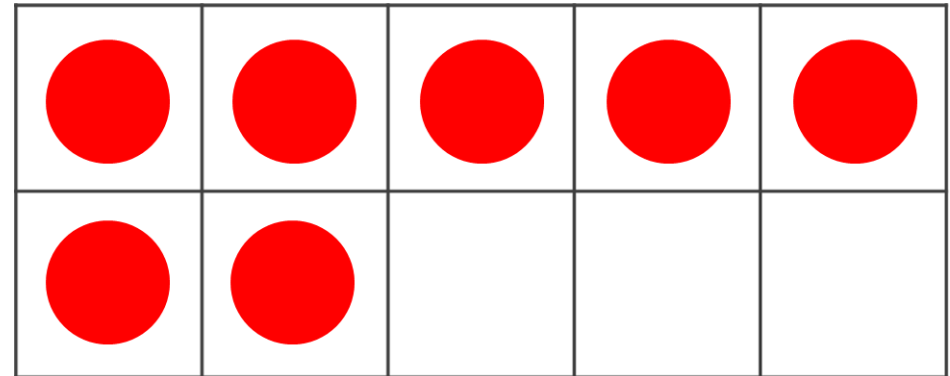
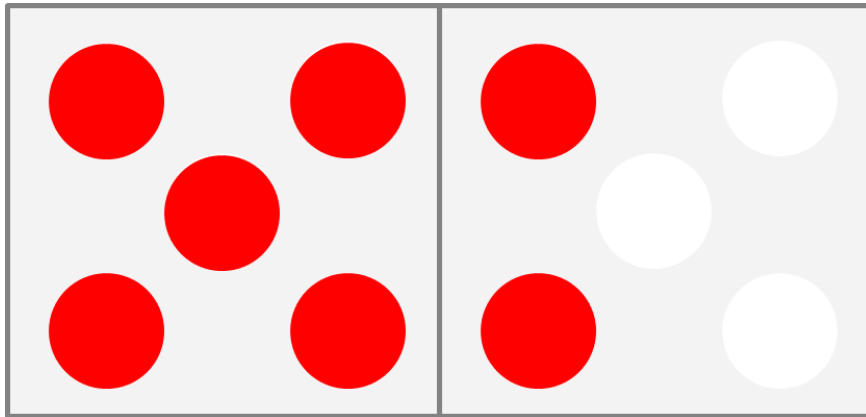
I know that 8 is made of 5 and 3.



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'?

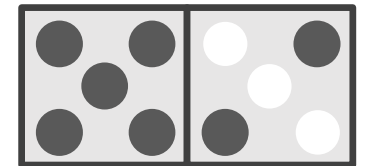
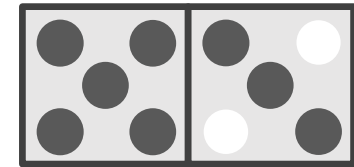
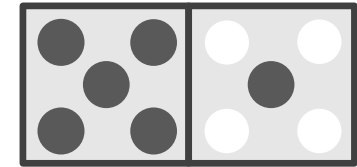
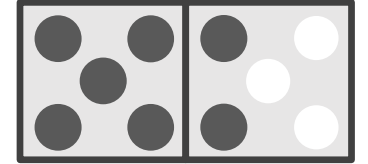


_____ is made of 5 and _____.
5 and _____ make _____.

Play 'Shows 7 / Does not show 7'

Sort the cards:

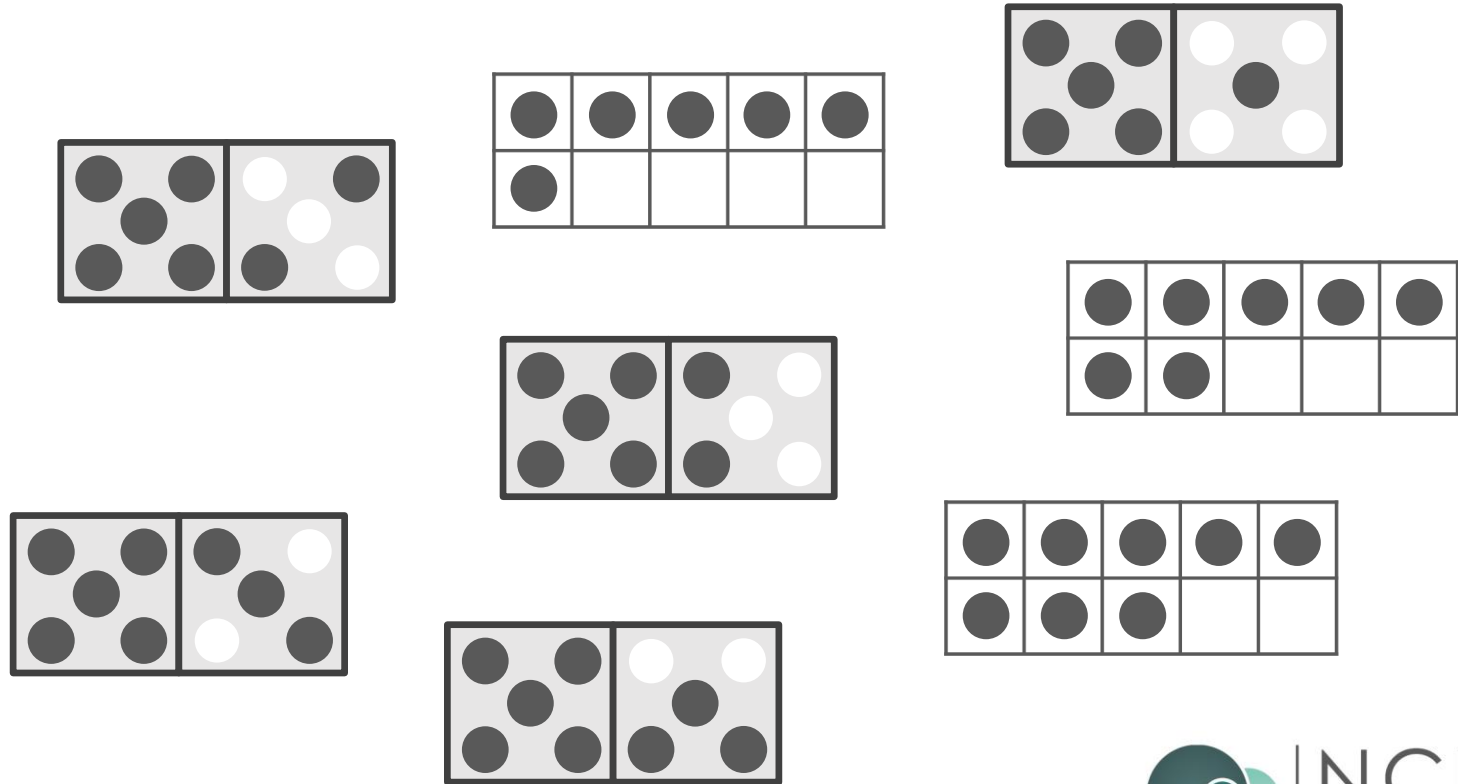
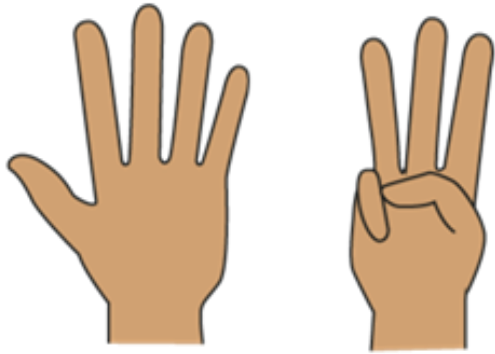
Shows 7	Does NOT show 7



Play 'Match my fingers'

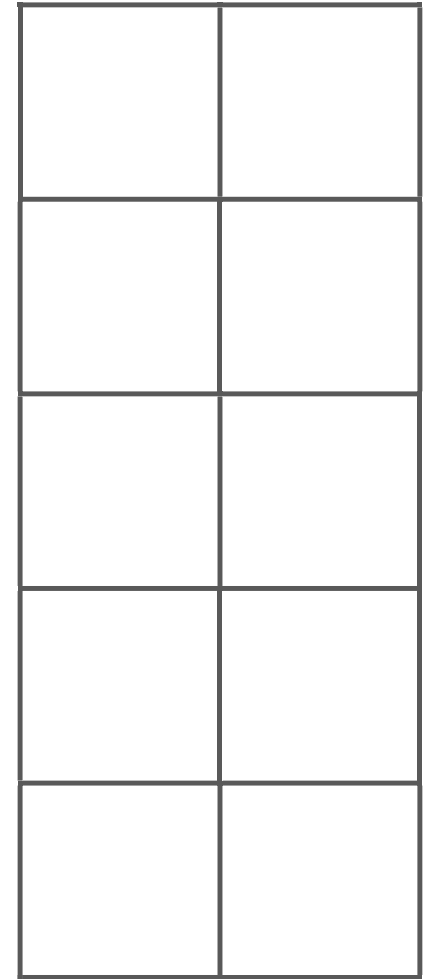
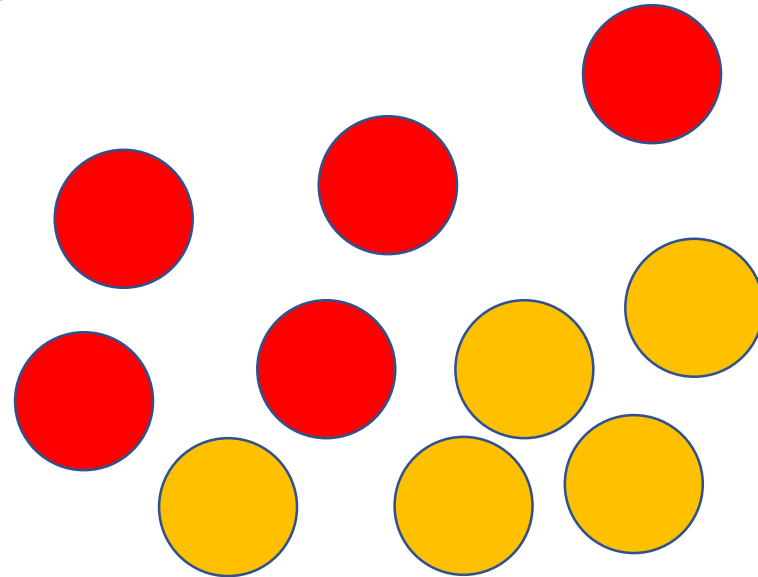
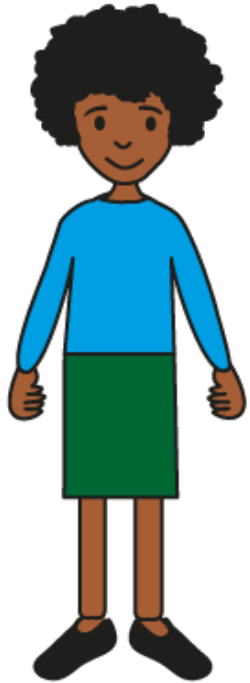
Grown-ups: use your fingers to show the number 8.

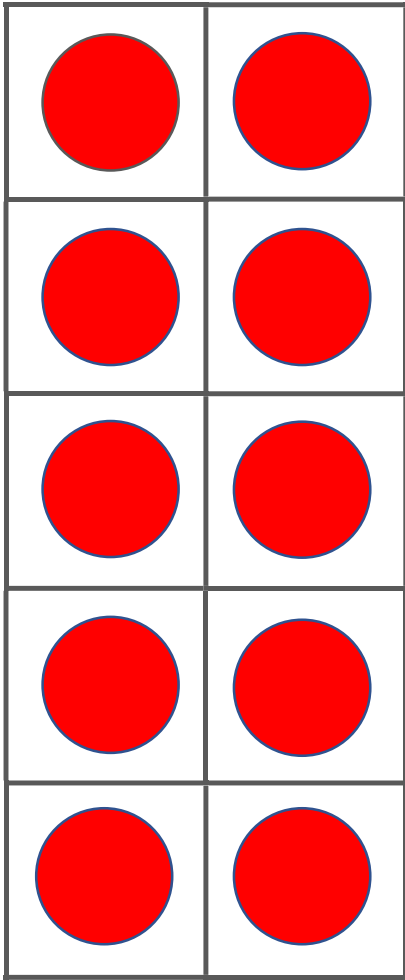
Children: can you find three cards that show the same number?



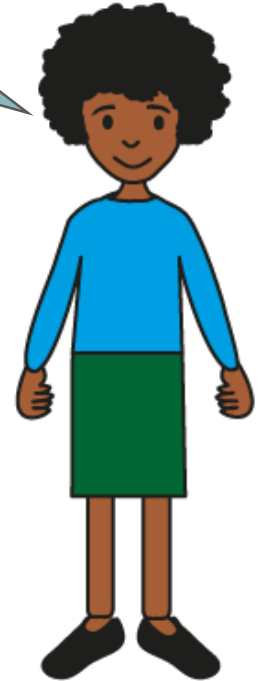
Play 'Ways to make 10'

You will need your 10 frame and 10 counters.



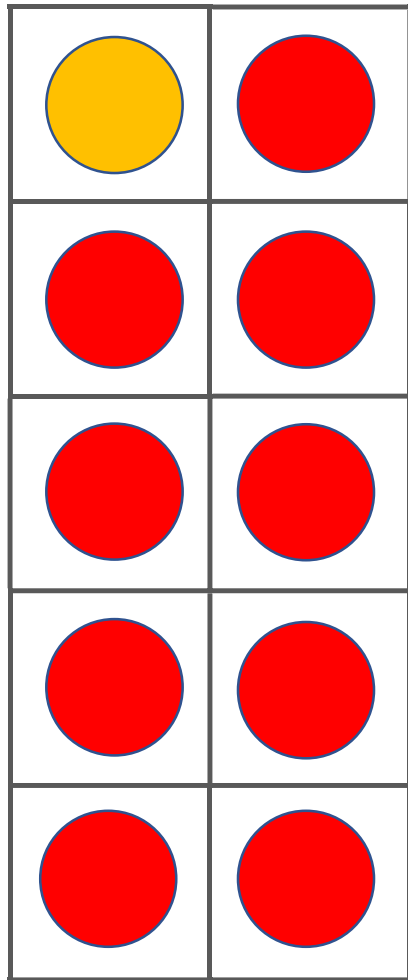


Start at the bottom and place two at a time.

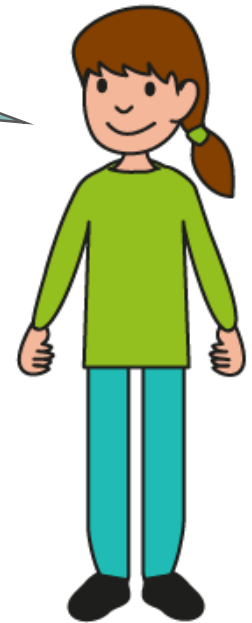


Children: Place the counters on the 10-frame so they are all red.

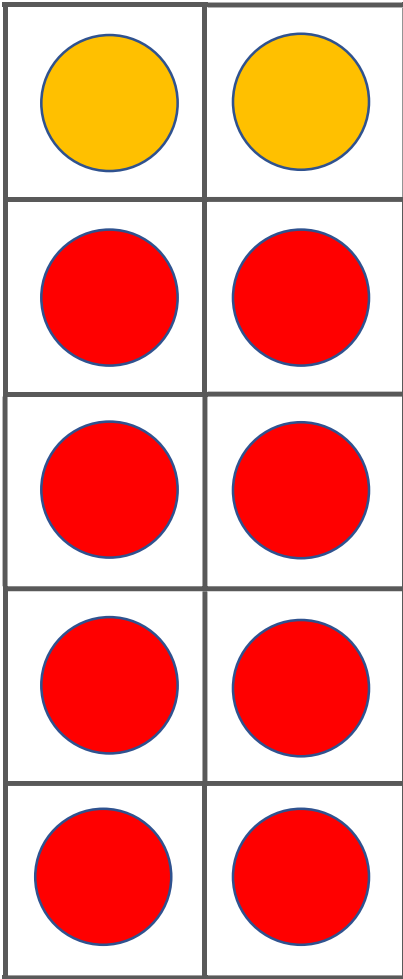
Grown-ups: turn one counter over at a time.



Say the stem sentence together.

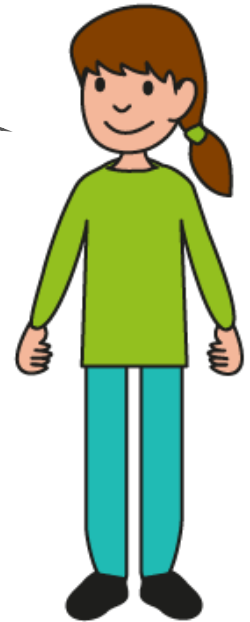


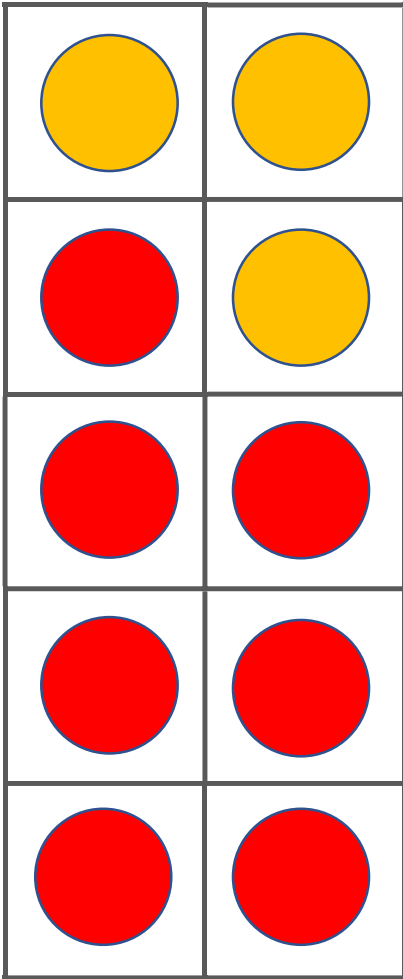
10 is made of ____ and ____.
____ and ____ make 10.



Keep saying the stem sentence together.

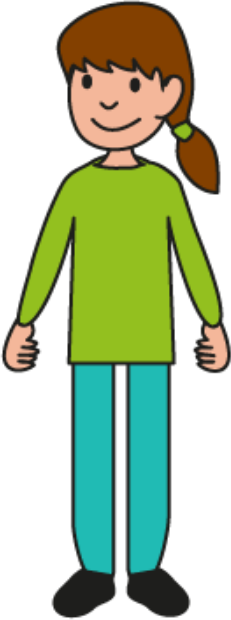
10 is made of ____ and ____.
____ and ____ make 10.





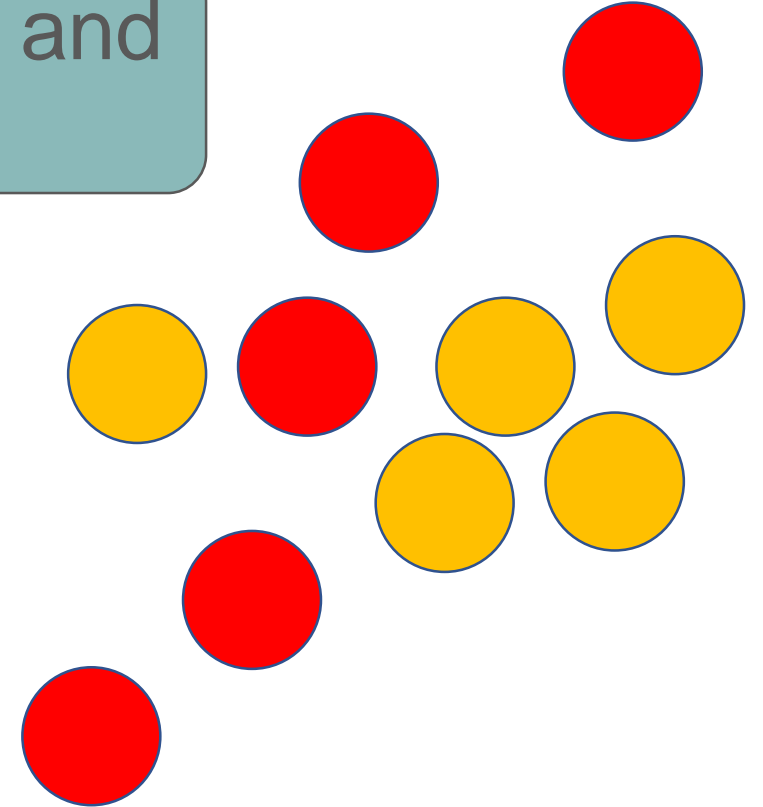
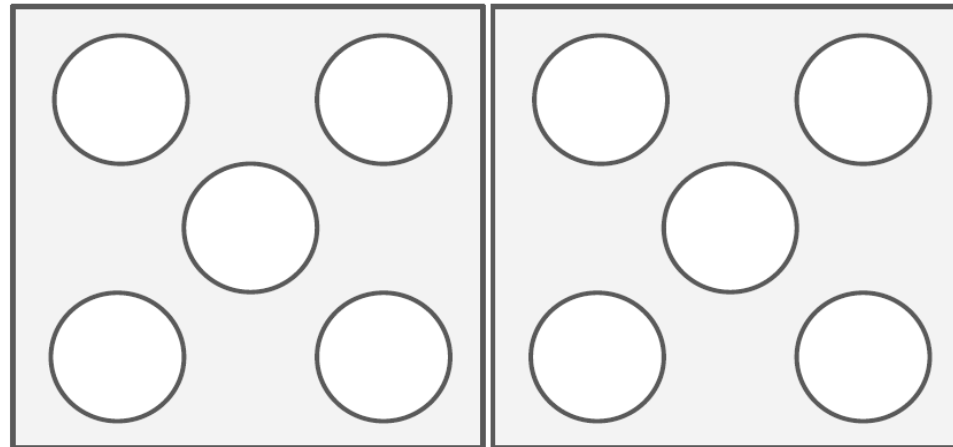
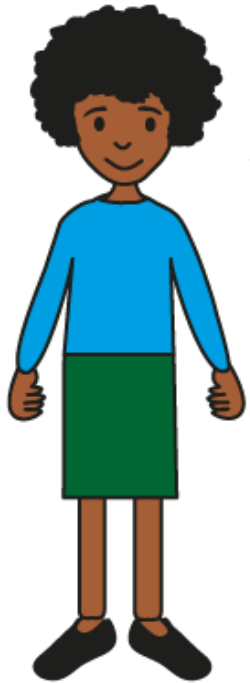
Continue doing this until all the counters are yellow.

10 is made of ____ and ____.
____ and ____ make 10.



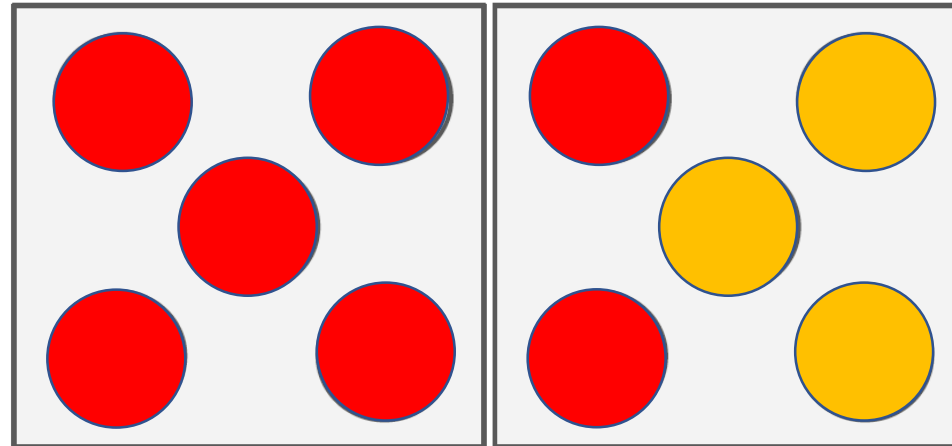
Play 'How many more to make 10?'

Now you will need your dice frame and 10 counters.



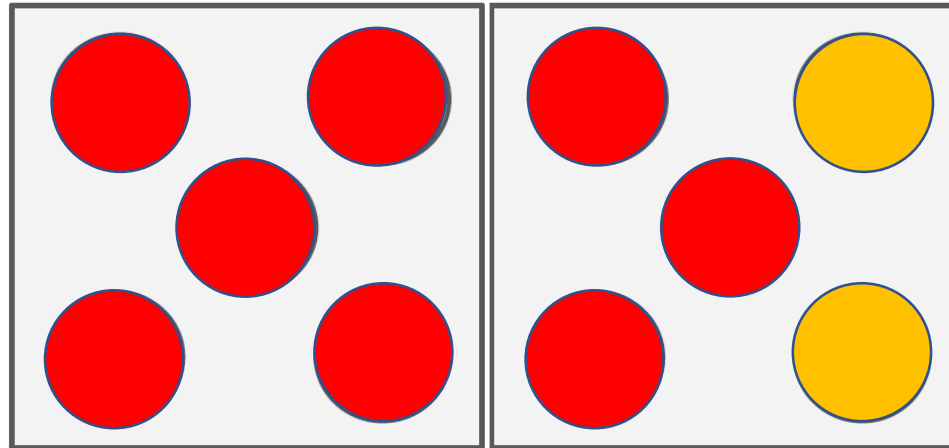
Grown-ups: Place 7 red counters onto the dice frame, using the '5 and a bit' pattern.

Children: Fill the spaces with yellow counters and use the stem sentence.



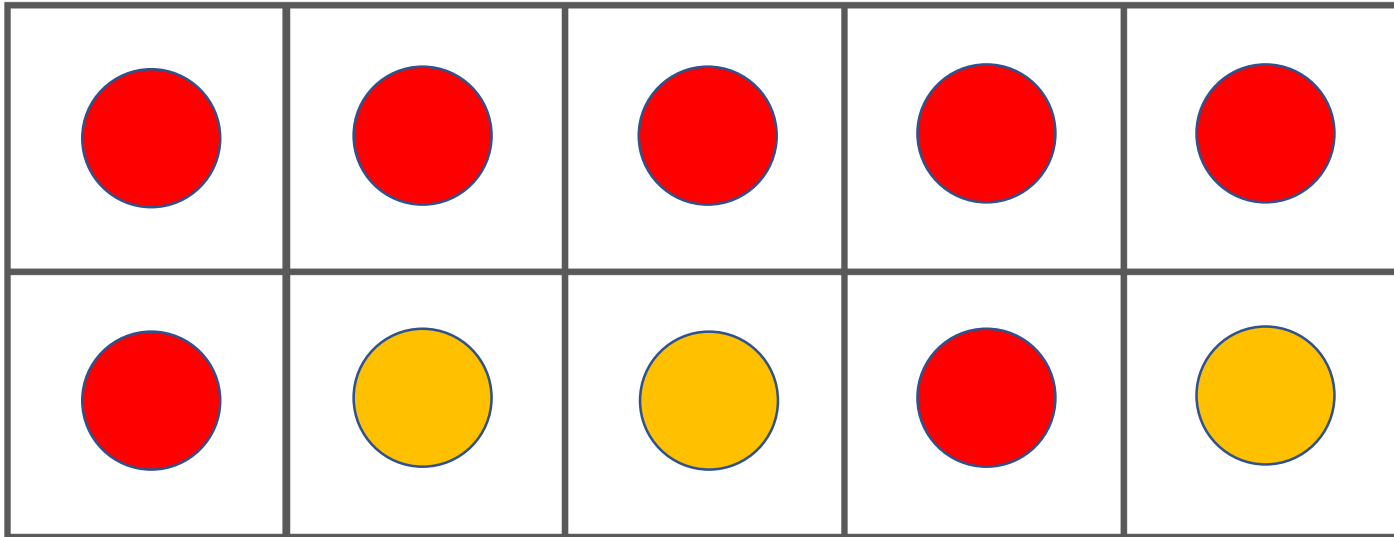
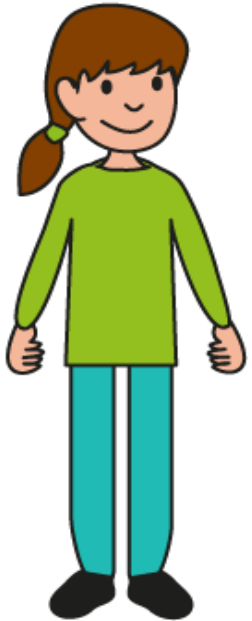
10 is made of _____ and _____.
_____ and _____ make 10.

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



10 is made of ____ and ____.
____ and ____ make 10.

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



10 is made of ____ and ____.
____ and ____ make 10.



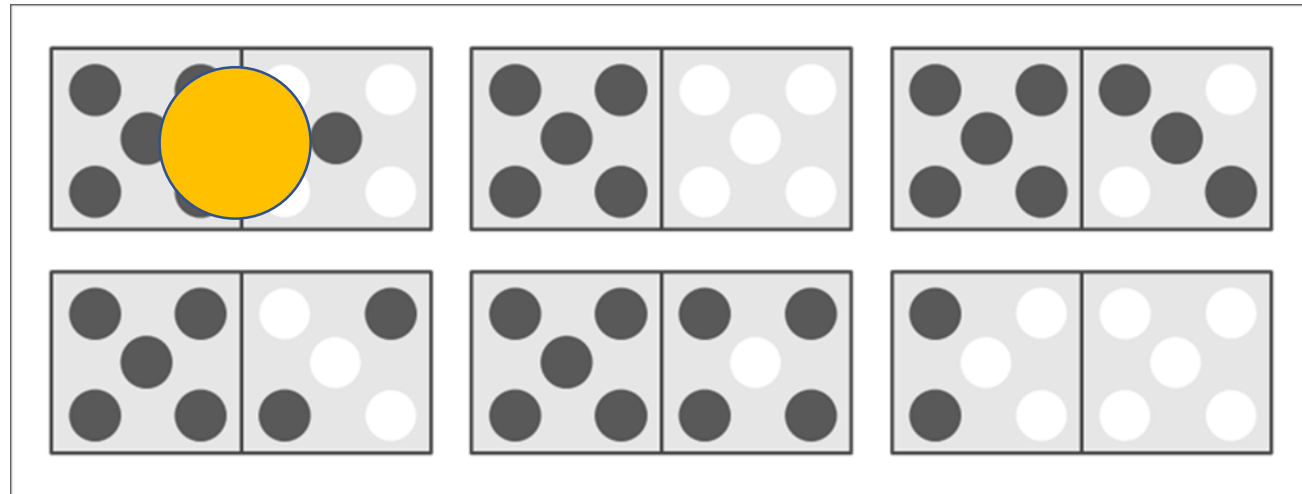
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Introducing 'Make it 10 Bingo'

Player 1: pick a caller card and read it out

Player 2: find the number that makes 10 and cover it with a counter.

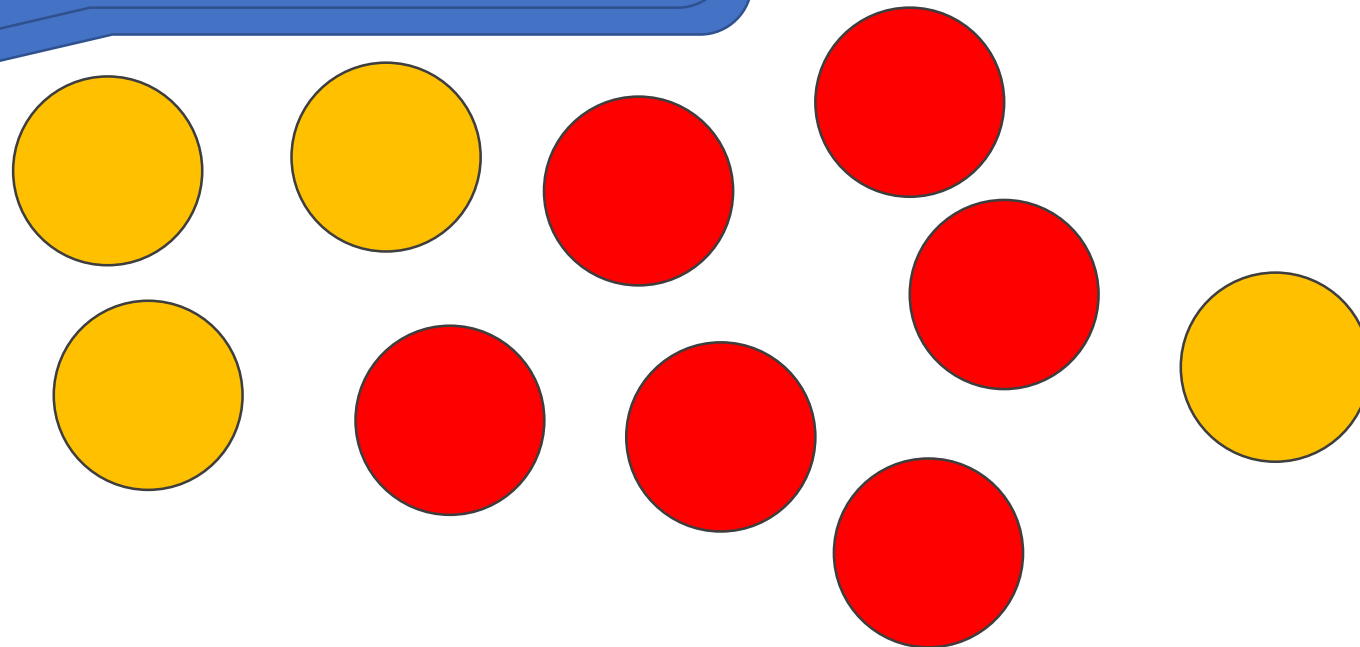
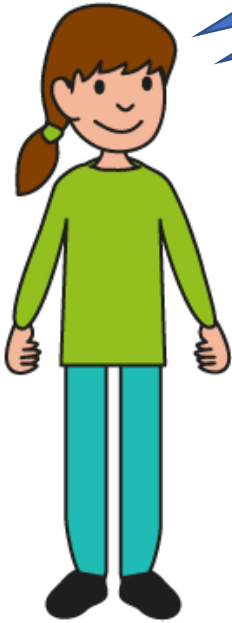
What does 4 need
to make 10?



_____ needs _____ to make 10.

Play 'Drop 10 counters'

How many of each colour?
Are the parts odd or even?



Home Learning

You are going to take all the games we made today home with you to practise.

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

References

Axford, N., Berry, V., Lloyd, J., Moore, D., Rogers, M., Hurst, A., Blockley, K., Durkin, H. and Minton, J. (2019) How Can Schools Support Parents' Engagement in their Children's Learning? Evidence from Research and Practice. London: Education Endowment Foundation.

Desforges, C. & Abouchaar, A. (2003), The impact of parental involvement, parental support and family education on pupil achievement and adjustment: A literature review. London: Department for Education and Skills.

Goodall, J & Vorhaus, J (2011), Review of Best Practice in Parental Engagement. Department for Education.

Sarjeant, S (2021) Engaging parents in children's literacy: an investigation into the Impact in Writing programme as a strategy for parental engagement. Available at:

[https://orca.cardiff.ac.uk/id/eprint/136692/3/1576474%20Suzanne%20Sarjeant%20-%20Final%20thesis%20\(002\).pdf](https://orca.cardiff.ac.uk/id/eprint/136692/3/1576474%20Suzanne%20Sarjeant%20-%20Final%20thesis%20(002).pdf) (Accessed 03.10.2022)

Thank you



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