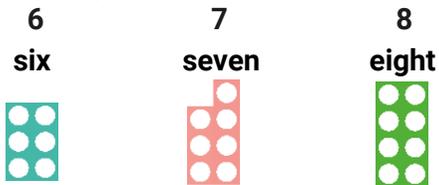


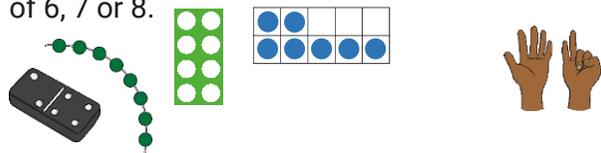
Maths Talk and Learn: Supporting White Rose Maths Growing 6, 7, 8

Find and Represent 6, 7, 8

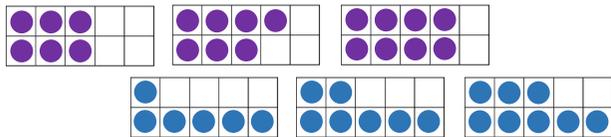


find represent how many

Talk about which images show a representation of 6, 7 or 8.



Look at how these counters have been arranged on the ten-frames. How many counters are in each ten-frame? How do you know? What are the similarities and differences between them?



Look at these cards arranged in sequence. Can you spot the missing number?



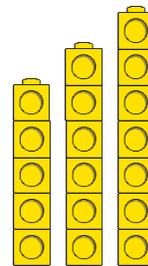
Challenge Yourself:

- How many different ways can you find to make 6, 7 and 8 by arranging counters? How could you record this?
- Can you make collections of 6, 7 and 8 natural objects and create a display?

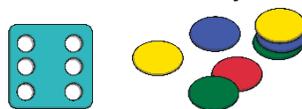
1 More and 1 Less to 8

**1 more 1 less 1 fewer
number before after**

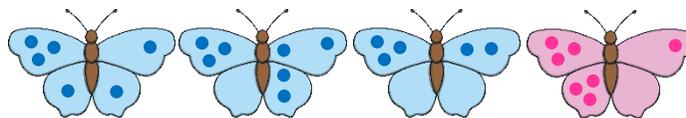
How many cubes would there be in the next tower? How do you know?



Laurie has thrown this number on the dice. He's asked his friend Lucy to take this number of counters and then 1 more. How many counters will Lucy take?



Can you find a butterfly with 1 less spot and another with 1 more spot than the pink butterfly?



Which number is this? Which arrangement shows 1 less than this number?



Challenge Yourself:

- Count 7 bricks or beads into a container so that they cannot be seen. Then, add 1 more brick/bead. Can you work out how many there are without counting them all?
- Now, take 1 or 2 items out of the container. How many are there now?

Making Pairs

pair odd even pair-wise

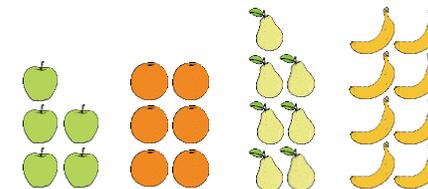
How many are there in each pair?



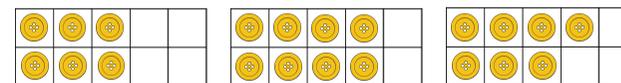
Talk about how many pairs of legs each animal has.



Look at the quantities of fruit arranged into pairs. Some quantities have an odd one left that can't be made into a pair. Is there a pattern of which numbers make even pairs and which don't?



Look at these pair-wise arrangements. How many are there in each arrangement? Can you say whether each number is odd or even?



Challenge Yourself:

- Find toys or items around the room to place into pairs. Do all the toys have a pair, or are there any odd ones left over that don't make a pair? Can you make pairs with 7 toys? Predict the answer and then check.
- Play a game that involves matching pairs of cards together or helping to match socks from the laundry.

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Find and Make Doubles to 8

double not double represent mirror

Which representations show doubles? How can you tell?



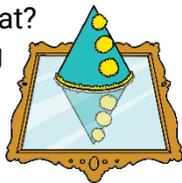
Lorenzo has rolled the dice. Has he rolled a double?



Now, Ella has rolled the dice. Has she rolled a double?



How many pom-poms are on the hat? What double is made when looking at the hat through the mirror?



The wizard is making a doubling spell. If there are 3 frogs to start with, how many will there be after the doubling spell? What is double 3?



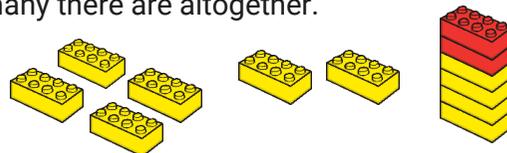
Challenge Yourself:

- Throw 2 dice (1-4) and see whether you have thrown a double or not. If you've thrown a double, show this on your fingers with the same number on each hand.
- Make some balls of modelling dough (any quantity from 1-4). Look at your modelling dough balls through a mirror to see the double.

Combine Two Groups

group together altogether combine

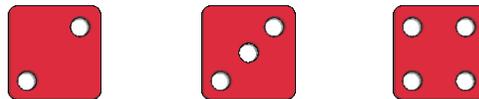
Put 2 groups of bricks together to find out how many there are altogether.



How many spots are on each side of the domino? Try and recognise how many are in each group without counting them (subitising). Then, combine the 2 groups and find out how many spots each domino piece has altogether.



Which 2 dice could be put together to make 7?



How many teddies are swimming? How many teddies are cycling? How many teddies are there altogether?



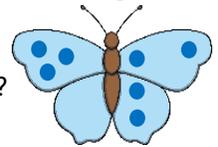
Challenge Yourself:

- Use both hands to grab 2 handfuls of dried pasta. How many pieces are in each hand?
- Put the 2 handfuls together. How many pasta pieces do you have in total?

Composition of 6, 7, 8

composition partition part whole altogether

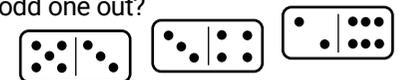
Look at the 2 sides of the butterfly. How many spots are on each side? How many spots are there altogether? What is the whole?



The fish have been put into 2 ponds. How many fish are in each pond? How many altogether? Can you find another way of making the whole?



Which dominoes show compositions of the same number? Which is the odd one out?



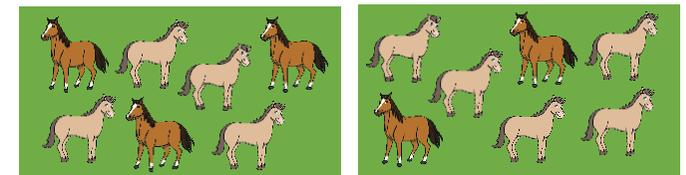
Conceptual Subitising

subitise see group

Look at these sea stars on the beach. What groups can you see? How many are there altogether?



Look at these fields. What do you see? What parts can you see? Do the fields have the same total number of horses?



Challenge Yourself:

- Create an arrangement of 7 pom-poms of 2 different colours. Talk about the groups you can see.
- Look at a grown-up's pom-pom arrangement. Can you see the same or different groups?