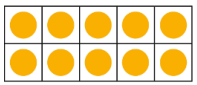
Maths Talk and Learn: Supporting White Rose Maths Building 9 and 10

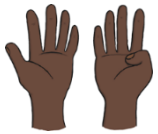
Find and Represent 9 and 10

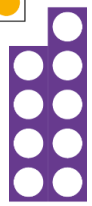
9
nine

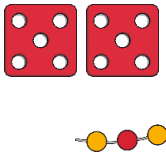
10
ten

Talk about which pictures represent the number 9 and which pictures represent the number 10.

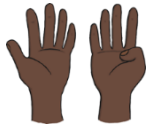








Show me 10 fingers. Now, show me 9 fingers. Can you show me 9 fingers in a different way?



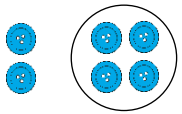
1	2	3	4	5	6	7	8	10

Look at this number line, which number is missing?

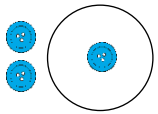
Compare Numbers to 10

When comparing one quantity to another, it can be:

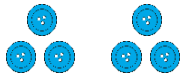
more than



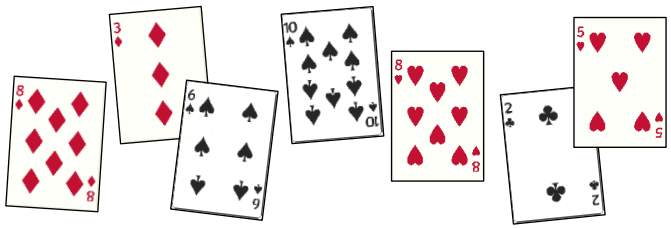
fewer than



the same as



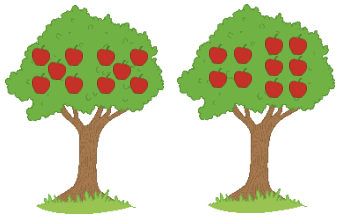
Remove the picture cards from a pack of cards. With a grown-up, turn over 2 cards. Compare the numbers and play a game of 'snap' by finding 2 cards that show the same number. Look at the cards on this page too. Talk about and compare the numbers you can see.



Conceptual Subitising to 10

see **subitise** **group**

What do you see on the trees? How do you see the groups of apples? Do the trees have the same number of apples?

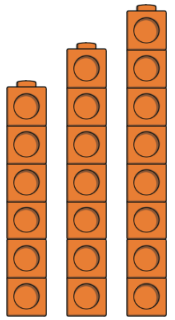


1 More and 1 Less

1 more
number

1 less
before

1 fewer
after



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

Daniel has picked the number card showing 9. Which number card shows the number 1 more than 9? What is 1 less than 9?

How many people will be on the bus if 1 more person gets on? What would happen if 1 person got off at the bus stop instead?

Challenge Yourself:

- Where can you find 9 or 10 represented in the environment? Look for the numeral 9 or 10.
- Can you make representations of 9 or 10 using items you find at home?

Challenge Yourself:

- Collect a large handful of building bricks and sort into colours. How many are in each group?
- Place all the bricks of the same colour into a tower. Which tower has the most bricks? Which has the fewest? Can you find 2 towers that have the same number of bricks?

Challenge Yourself:

- Make a set of number cards 1 to 10. Choose a card at random then find the cards showing the numbers 1 more and 1 less than your number and place them either side of your card.

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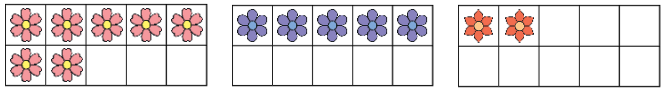
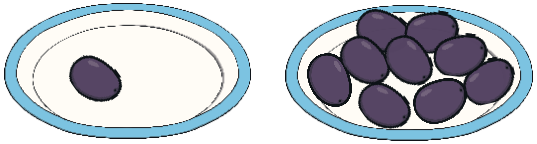
Bonds to 10

Number bonds to 10 describe numbers that go together to make 10, for example 5 and 5 or 9 and 1.

Baby Bear has been collecting some flowers. He has put them in some ten-frames. Talk about how many more flowers Baby Bear needs to put on each ten-frame to make 10.



There are many ways to share 10 items into 2 sets. Talk about how the grapes have been shared on these 2 plates. Can you think of some other ways the grapes could be shared between the 2 plates?



How could the grapes be shared onto 3 plates?

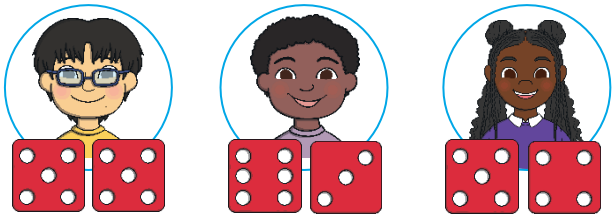
Challenge Yourself:

- Place 2 small plates or dishes on a surface. From above, drop 10 pieces of dried pasta onto the plates. Talk about how many landed on each plate and on the table.
- If you try again, do you find a different composition of 10? Are there 2 parts or 3 parts making the whole?

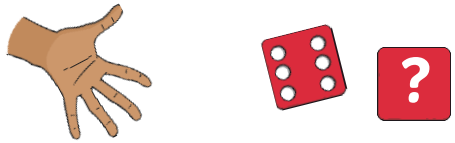
Composition to 10

composition **partition** **part** **whole** **altogether**

Look at the 2 sides of the ladybirds. How many spots are on each side? How many spots are there altogether? Can you talk about the parts and the wholes you can see?



Dora, Leni and Jeff have rolled 2 dice each. How many spots are on each of their dice? How many has each child rolled altogether? Who has rolled the highest number? Have any of the children rolled the same total?



Logan has rolled 2 dice and has a total of 10. What number must be on his other dice?

Challenge Yourself:

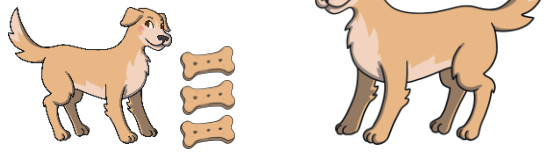
- Find 2 dice and roll them yourself to see what total you can make. What are the 2 parts shown on the dice? What is the whole number they make?
- Can you find different ways to make the same whole number?

Doubles to 10

double **not double** **twice as many**

Which dominoes show doubles? Which ones are not doubles? How do you know?

Daddy Dog wants to eat double the bones. How many will he eat?

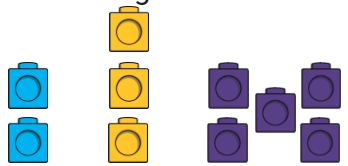


Explore Odds and Evens

odd **even**

How do you see the teddies? Can you describe the small parts of the whole group? Are the small groups an odd or even number? Are there an odd or even number of teddies altogether?

Are these cubes arranged in odd or even sets? Is the total odd or even?



Challenge Yourself:

- Go on an odd and even hunt around your home. Make a group of odds and a group of evens.
- Can you talk about the groups and explain how you know you have an odd or even number?