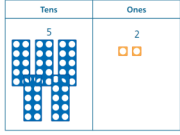


Maths - Year 2

Calculating 10: Mental strategies for near doubles and adding and subtracting 9

Key Vocabulary

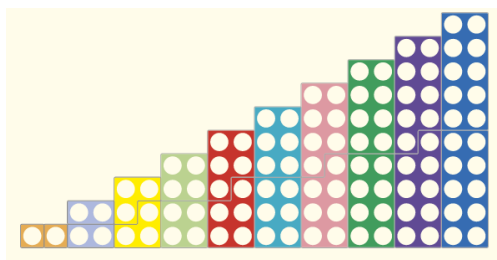
Subtract	Taking one amount from another.
Add	Combine two or more amounts to make a total.
Tens	Refers to the number of tens in a number e.g. on a place value grid. <div style="text-align: center;">  </div>
Ones	Refers to how many ones in a number e.g. 34 has 3 tens 4 ones.
Double	Multiply a number by 2.
Halve	Divide into two equal parts.
Equals	The same in number or amount.
Whole	The whole of a number or amount.
Part	A part of the whole amount e.g. 5 and 3 are parts of 8.
Half	One of two equal parts.
Adjust	To make a small change to something.

Mathematical Skills

- Recall double facts for each number to 10.
- Derive the related subtracting fact from their knowledge of a double.
- Solve a near double problem because they know the double fact.
- Add 9 by adding 10 and subtracting 1.
- Know when to use the relationship between 9 and 10 to add and subtract.
- Work systematically.
- Calculate double facts for higher numbers.

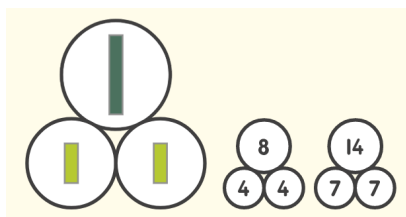
Mathematical Methods

- Doubles with Numicon shapes from 1 - 10.

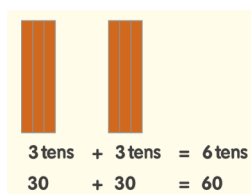


- Subtracting from a double and relating this to halving e.g. $2 - 1 = 1$; halving $2 = 1$.

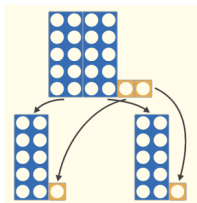
- Parts and wholes with doubles.



- Doubling higher numbers.



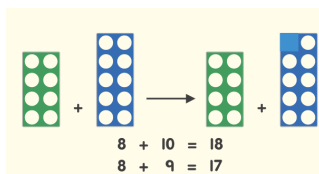
- Halving higher numbers e.g. half of 22.



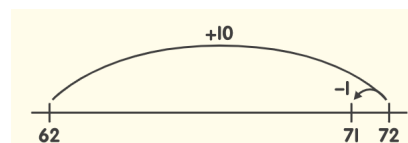
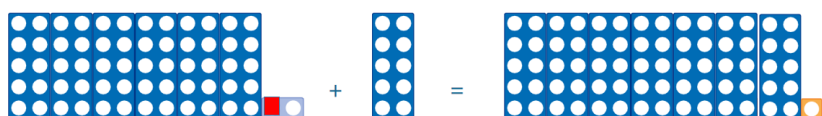
- Relating 'near doubles' to doubles e.g. knowing $6 + 6 = 12$ helps us calculate $6 + 7$.



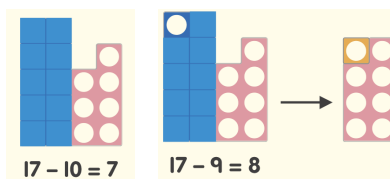
- Adding 9 to a 1-digit number e.g. $8 + 9 = 8 + 8 + 1$; or $8 + 9 = 8 + 10 - 1$.



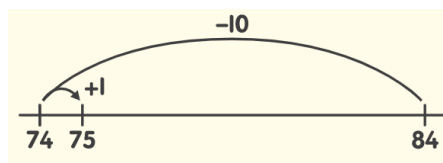
- Adding 9 to a 2-digit number e.g. $62 + 9 = 62 + 10 - 1$.



- Subtracting 9 from a teen number e.g. $17 - 9 = 17 - 10 + 1$.



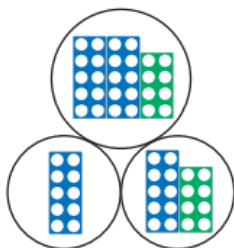
- Subtracting 9 from a 2-digit number e.g. $84 - 9 = 84 - 10 + 1$.



- Adjusting higher numbers e.g. $39 + 7 = 40 + 7 - 1$.

Can you..?

- Jodie made this parts and wholes model to find half of 28. Do you think her model is correct? Can you explain your thinking?



- Can you draw a parts and wholes model to show double 11.

- Can you solve $32 + 9$?