

Maths - Year 2

Calculating 14: Adding and Subtracting to 20

Key Vocabulary

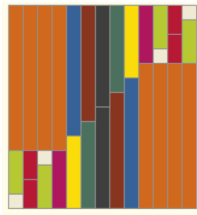
| | |
|-----------|---|
| Subtract | Taking one amount from another. |
| Add | Combine two or more amounts to make a total. |
| Tens | Refers to the number of tens in a number e.g. on a place value grid. |
| Ones | Refers to how many ones in a number e.g. 34 has 3 tens 4 ones. |
| Equals | The same in number or amount. |
| Adjusting | Making a small change to something. |
| Bridging | Partitioning (splitting) the number to be added or subtracted to help with calculating. |

Mathematical Skills

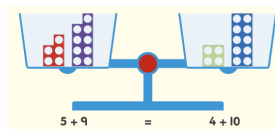
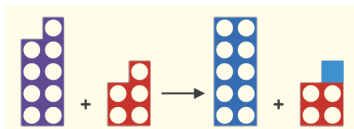
- Have fluent recall of adding and subtracting facts to 10 and use these when adding and subtracting to 20.
- Work in an organised way to show adding or subtracting facts in a logical order, both when illustrating them with apparatus and when writing them down.
- Choose different strategies to solve adding and subtracting problems.
- Know that there can often be several ways to reach a solution.
- Illustrate their calculating on an empty number line.
- Beginning to have fluent recall of adding and subtracting facts to 20.

Mathematical Methods

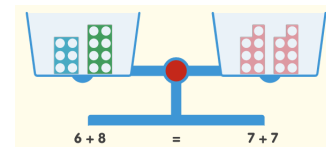
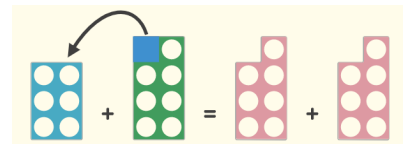
- Investigating adding facts for 14.



- Solving adding facts for 14.



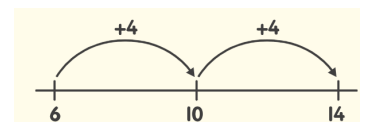
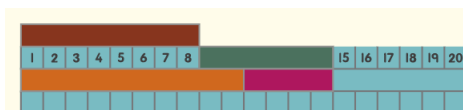
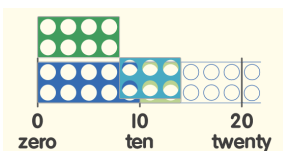
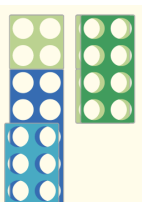
$$12 + 2 =$$



- Subtracting facts for 14, using the inverse of adding.

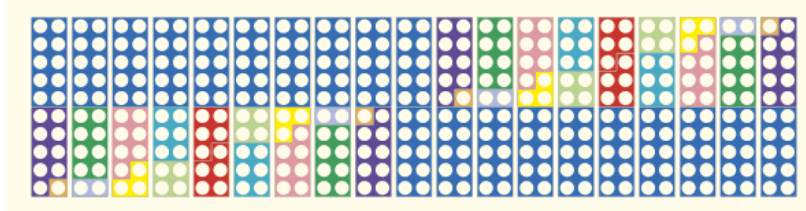
$$\begin{array}{ll} 1 + 13 = 14 & 14 - 1 = 13 \\ 2 + 12 = 14 & 14 - 2 = 12 \\ 3 + 11 = 14 & 14 - 3 = 11 \text{ etc.} \end{array}$$

- Empty box notation and using empty number lines e.g. $14 = 6 + \square$



- Working with numbers 13, 15, 16, 17, 18 and 19 in the same way as 14.

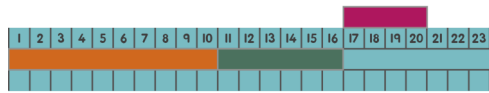
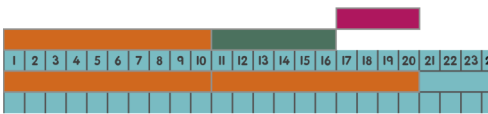
- Adding facts for 20.



- Subtracting facts for 20, using the inverse of adding e.g. $20 - 1 = 19$ or $20 - 19 = 1$.

- Solving empty box problems e.g. $20 - \square = 5$

- Change from 20p e.g. I spend 16p. How much change will I have from 20p?



Can you..?

- Can you calculate all the subtracting facts for 19p?

- Can you answer these questions?

$$12 + \square = 16$$

$$\square - 7 = 6$$

$$\square + 9 = 15$$

$$18 - \square = 5$$

$$3 + \square = 17$$