

Year 2
Doubling a 2 digit number

Concrete - This means using objects.

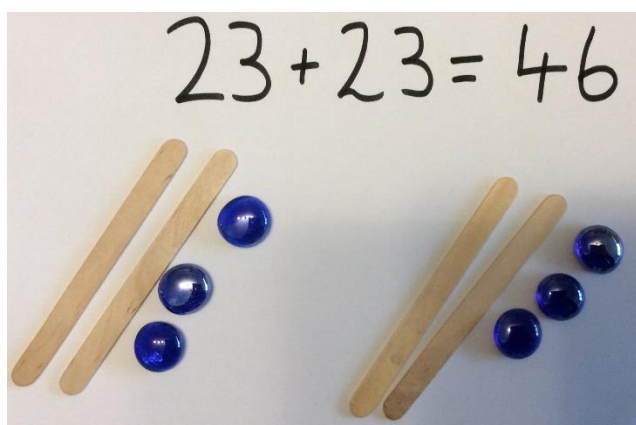
Objects you could use at home:

buttons, stones, sticks, beads, lolly sticks, Lego blocks, pencils, small toys, pom poms

Steps to success:

- Collect some objects from home that you can use.
- Look at your number sentence for example $23 + 23 =$
- This is a double because you are adding the same number to itself.
- Represent each number using objects. Remember because you are representing a 2 digit number you need to show the tens and the units.
- Count the total number of objects, remember to count the tens first and then the units.

An example for you:



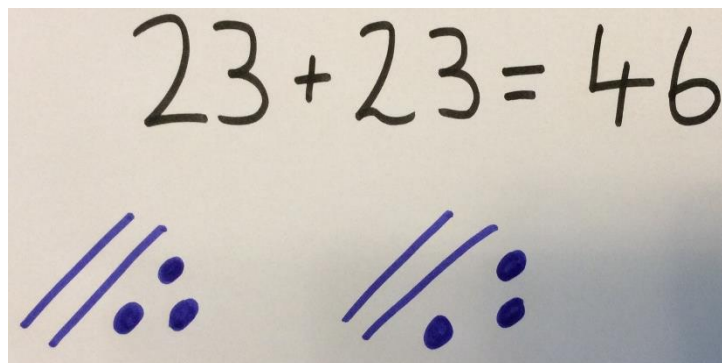
I used objects to represent $23 + 23 =$
Then I counted the total number of objects. I have four tens and six units. I have 43 altogether.

Pictorial - This means using drawings or representations.

Steps to success:

- Find your exercise book.
- Look at your number sentence for example $23 + 23 =$
- This is a double because you are adding the same number to itself.
- Represent each number using a jotting. Remember because you are representing a 2 digit number you need to show the tens and the units.
- Count your jotting altogether. Remember to count the tens first and then the units.

An example for you:



23 + 23 = 46

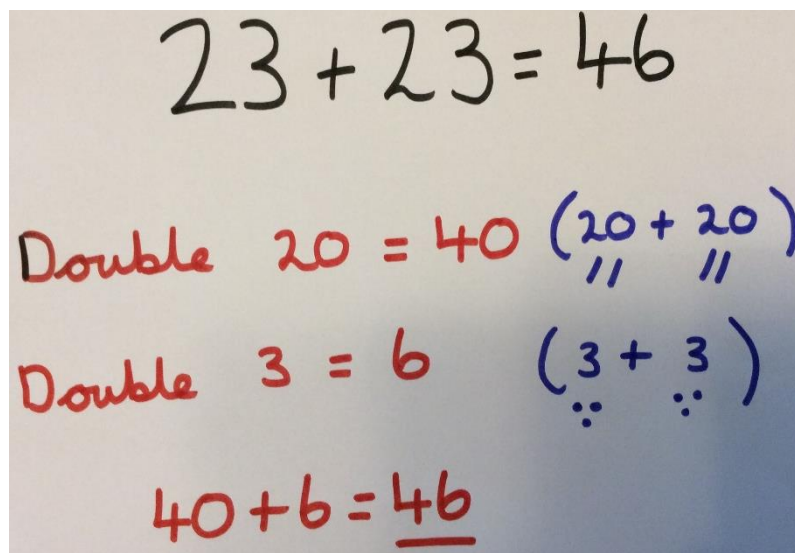
Two base ten blocks are shown below the equation. Each block consists of two vertical rods (representing tens) and three horizontal dots (representing ones).

Abstract - This means doing the calculation mentally in your head.

Steps to success:

- Find your exercise book.
- Write down your number sentence.
- You can use partitioning to help you double a 2 digit number. Start by adding the tens and then the ones.

An example for you:



23 + 23 = 46

Double 20 = 40 ($\begin{smallmatrix} 20 \\ // \end{smallmatrix} + \begin{smallmatrix} 20 \\ // \end{smallmatrix}$)

Double 3 = 6 ($\begin{smallmatrix} 3 \\ \cdot\cdot \end{smallmatrix} + \begin{smallmatrix} 3 \\ \cdot\cdot \end{smallmatrix}$)

40 + 6 = 46

Try these yourself. What will you use to help you?

31 + 31 =

43 + 43 =