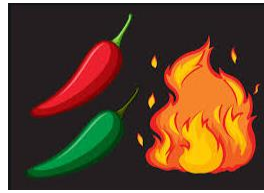


## Maths Chilli Challenge



Look at the challenges below and choose a level of chilli you want to start with. If you feel confident doing that challenge, have a go at the next one!



### Mild – Challenge 1

Year 1 give this a go and use any objects you can find around the house to help you if you need it.

$$1/ 18 - 6 = 12$$

$$4/ 29 - 8 = 21$$

$$2/ 27 - 4 = 23$$

$$5/ 38 - 7 = 31$$

$$3/ 32 - 2 = 30$$

$$6/ 16 - 5 = 11$$



### Medium – Challenge 2

Year 1 see if you can follow the video and give this a go!

$$1/ 12 - 7 = 5$$

$$3/ 31 - 4 = 27$$

$$5/ 35 - 8 = 27$$

$$2/ 24 - 5 = 19$$

$$4/ 18 - 9 = 9$$

$$6/ 11 - 9 = 2$$

Continue the pattern

$$22 = 29 - 7$$

$$22 = 28 - 6$$

$$22 = 27 - 5$$

$$22 = 26 - 4$$

$$22 = 25 - 3$$

$$22 = 24 - 2$$

$$22 = 23 - 1$$

$$22 = 22 - 0$$



### Hot – Challenge 3

Year 2, I expect you to try these challenges you will need to pick a method shown in the video the one you have been using in class and you are most comfortable doing. You must show your working out.

$$1/ 24 - 16 = 8$$

$$4/ 9 = 28 - 19$$

$$7/ 31 - 13 = 18$$

$$2/ 31 - 19 = 12$$

$$5/ 18 = 41 - 23$$

$$8/ 4 = 22 - 18$$

$$3/ 34 - 17 = 17$$

$$6/ 26 - 17 = 9$$

$$9/ 18 = 37 - 19$$

## True or False?

These four calculations have the same answer.

$1 + 4 + 2$

$4 + 2 + 1$

$2 + 4 + 1$

$4 + 1 + 2$

True because addition is commutative.

These four calculations have the same answer.

$7 - 3 - 2$

$2 - 3 - 7$

$3 - 2 - 7$

$7 - 2 - 3$

False.

Use  $<$ ,  $>$  or  $=$  to make the statements correct.



I can do this without working out any answers.

$17 - 5 > 12 - 5$

$14 - 4 = 18 - 8$

$11 - 7 < 11 - 4$

Is Whitney correct? Explain how you know.

I know that 17 subtract 5 is greater than 12 subtract 5 because 17 is greater than 12 and we are taking the same amount from both.

I know that 14 subtract 4 is equal to 18 subtract 8 because 4 subtract 4 is 0 and 8 subtract 8 is 0. The tens are still equal.

I know that 11 subtract 7 is less than 11 subtract 4 because we start with the same number but take more away.



### Spicy – Challenge 4

78 minus 34 = 44

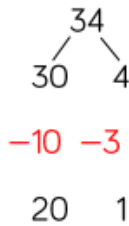
8 ones – 4 ones = 4 ones

7 tens – 3 tens = 4 tens

We have 4 tens and 4 ones.

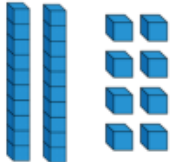
Tens	Ones

34 – 13 = \_\_\_\_\_



- Partition the number 34.
- Partition 13 and subtract the ones and the tens.
- Place the partitioned number back together.

Subtract 13 from 28




$$\begin{array}{r}
 28 \\
 20 \quad 8 \\
 -10 \quad -3 \\
 \hline
 10 \quad 5
 \end{array}$$

$$\begin{array}{r}
 28 \\
 -13 \\
 \hline
 15
 \end{array}$$

Eva and Whitney are working out some subtractions.

I am working out  
74 – 56



Whitney



One of my numbers  
in my question is 15

Eva

Whitney's answer is double Eva's answer.

What could Eva's subtraction be?

I know that  $74 - 56 = 18$ . If Whitney's answer is 18 and that is double Eva's answer, then I know Eva's answer is half of Whitney's answer. Half of 18 is 9. If 9 is Eva's answer, then it must look like this:

\_\_ - \_\_ = 9

If one of the numbers is 15, then it could be one of these two:

15 - \_\_ = 9

\_\_ - 15 = 9

Now we just fill in the gaps.

15 - 6 = 9

24 - 15 = 9