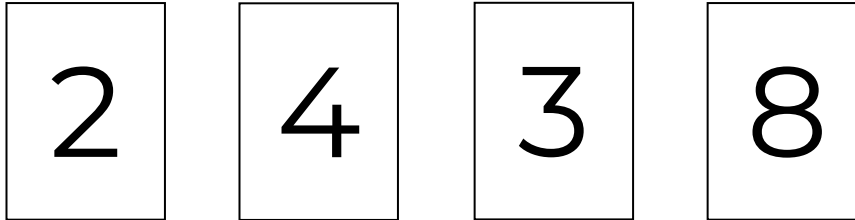


KS1 Problem

Sum Up

Choose from these four cards.



Make these totals:

- 9
- 10
- 11
- 12
- 13
- 14
- 15

Challenge

What other totals can you make from the cards?

What numbers can you make if you use subtraction instead?

Support for Parents and Carers

If you can, provide your child with the numbers written out on a piece of paper so that they can move them around to try and find different totals.

When finding different possible totals, children are likely to be quite random and start afresh to get a new combination. However, some children may recognise that they can keep one number the same and change the other. Using this approach will help them find all possibilities and could help them with calculations. For example, if they have already found the total for $8 + 2$, the total for $8 + 3$ is one more than the total they have just found.

To help children work out whether or not they have found all possibilities, encourage them to write out the calculations they have made on separate pieces of paper which can then be moved round to help children organise them into groups such as

$$2 + 3 \quad 2 + 4 \quad 2 + 8$$

as these are the only calculations that can be made with the digit 2 first.

KS1 Problem

Solution

Number	Calculation
9	$4 + 3 + 2$
10	$8 + 2$
11	$8 + 3$: The total is 1 more than the previous total and 3 is 1 more than 2
12	$8 + 4$: The total is 1 more than the previous total and 4 is 1 more than 3
13	$8 + 2 + 3$: 13 is $10 + 3$ and 10 was made earlier with $8 + 2$
14	$8 + 2 + 4$: The total is 1 more than the previous total and 4 is 1 more than 3
15	$8 + 3 + 4$: The total is 1 more than the previous total and 3 is 1 more than 2

Challenge Solution

Other totals that can be made are:

Number	Calculation
5	$2 + 3$
6	$2 + 4$
7	$3 + 4$
17	$2 + 3 + 4 + 8$

Numbers that can be made using subtraction:

Number	Calculation
1	$3 - 2$ or $4 - 3$
2	$4 - 2$
3	$8 - 2 - 3$
4	$8 - 4$
5	$8 - 3$
6	$8 - 2$