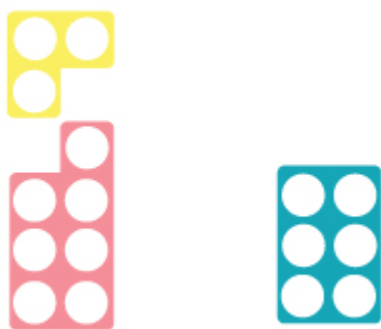


Spot the 10

Focus of activity: Adding three single-digit numbers, spotting a pair with a total of 10.

Working together: conceptual understanding

- Lay out a set of 1 to 10 number shapes. Write $7 + 6 + 3$. Ask children to select the shapes to match this addition. Say that we can add the three numbers in any order, whichever is easier. Move the shapes around until children see that the 7 and 3 go together to make 10! *Then it's easy to add the 6 to make 16.* Complete the addition $7 + 6 + 3 = 16$.



- Write $7 + 4 + 6$. Ask children to select shapes to match this addition, and then look for a pair which make 10. *Now add the other number. What's the total?* Complete the addition.
- Repeat with $8 + 5 + 2$.

Up for a challenge?

Write $5 + 2 + 5$. Can children spot a pair to 10 without using the number shapes?

Repeat with $4 + 8 + 2$.

Now it's the children's turn:

- Children work in pairs to choose a sum card. They find the number shapes to match, try to make a pair to 10 and then add on the other number. They write the answers to the sums on the 'cards'. Repeat as many times as they can.
- Go round the group and mark their additions as they do them, e.g. initially after two examples. Are they beginning to spot the pair to 10 without using the number shapes?

S-t-r-e-t-c-h:

If children cope well, ask them to work out $6 + 3 + 4 + 1$ and $5 + 3 + 2 + 7$, spotting a pair to 10 first.

Things to remember

Remember that we can add numbers together in whatever order we want to. Knowing our pairs to 10 can help us to add several numbers. Ask children if they can remember any pairs to 10. Make a list of the ones they know by heart.

You may want to add something that has emerged from the activity. This may refer to misconceptions or mistakes made.

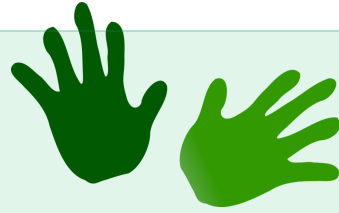
Resources	Outcomes
<ul style="list-style-type: none">• Number shapes, e.g. Numicon®, or make card shapes (see child instructions)	<ol style="list-style-type: none">1. Children can add three single-digit numbers, spotting a pair with a total of 10.2. Children begin to add four single-digit numbers, spotting a pair with a total of 10.

Spot the 10

Work in pairs

Things you will need:

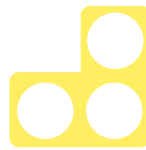
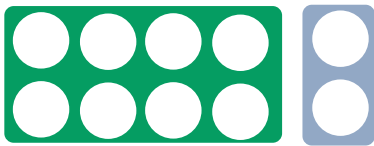
- A set of number shapes, e.g. Numicon®
- A set of sum cards
- A pencil



What to do:

- Choose a sum card.
- Find the number shapes to match.
- Which two shapes go together to make 10?
- Now add on the other number.
- Write the answer to the sum.
- Do the same for as many sums as you can.

$$8 + 2 + 3 = \square$$



S-t-r-e-t-c-h:

Use the number shapes to help you to work out $6 + 3 + 4 + 1$.

Can you see a pair to 10?

Now work out $5 + 3 + 2 + 7$.

Learning outcomes:

- I can add three single-digit numbers, spotting a pair with a total of 10.
- I am beginning to add four single-digit numbers, spotting a pair with a total of 10.

Spot the 10

$$8 + 3 + 2 = \square$$

$$3 + 2 + 7 = \square$$

$$4 + 5 + 5 = \square$$

$$1 + 2 + 8 = \square$$

$$6 + 4 + 5 = \square$$

$$4 + 9 + 6 = \square$$

$$1 + 7 + 9 = \square$$

$$7 + 3 + 8 = \square$$

Spot the 10

