

Spider adds

Activity 1

Focus of activity: Adding 10 to 2-digit numbers.

Working together: conceptual understanding

- Help children to make 25 from two 10 shapes and a 5 shape. Write $25 + 10 =$ on the flipchart. Add another 10 shape. *How much do we have now?* Count in 10s to count the 10s shapes, and then add the 5 to make 35. Complete the number sentence.
- Repeat adding another 10 and record $35 + 10 = 45$.
- Show children a large 1-100 grid. Place a plastic spider (or card cut-out one, see child instructions) on 5 and use Spider counting to count in 10s from 5 to 95.
- Ask a child to find 25 on the grid. Place Spider on this number. *Where is the answer to $25 + 10$? Just underneath 25! Remember we can use Spider counting to add 10.*
- Use the Spider to show $35 + 10$. *She's just added 10, wasn't she quick?*
- Next ask a child to show Spider working out $45 + 10$. Complete the addition: $45 + 10 = 55$.
- Write $23 + 10 =$. Ask a child to place Spider on 23, and then show Spider adding 10. Complete the addition.
- Ask each child to do a Spider addition on the grid.

Up for a challenge?

Ask children to close their eyes. *Spider is going to work out 28 add 10. She starts on 28 and moves down a square. What number is on the square where she lands?* Children open their eyes to check on the 1-100 grid. Repeat with $26 + 10$.

Now it's the children's turn:

- Children choose a Spider sum. They place Spider on the first number and use her to add 10, writing the answer in the sum. Repeat for as many sums as they can.
- Go round the group and mark their additions as they do them, e.g. initially after two examples. Make sure that they are not counting on in ones.

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

If children cope well, ask them to make up some of their own Spider sums.

Things to remember

Remember that to add 10, we don't need to count in ones – it would take too long! We can use Spider, she helps us to count on in 10s. Ask children what they notice about the answers when Spider adds 10. If necessary, point out that the 1s digits stay the same.

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

Resources

- Number shapes, e.g. Numicon® or make card shapes (see child instructions)
- Large 1-100 grid
- Plastic spider (or card cut-out one, see child instructions)
- 1-100 grids for children to use (see child instructions)
- Spider for each pair (see child instructions)
- Spider sums (see child instructions)

Outcomes

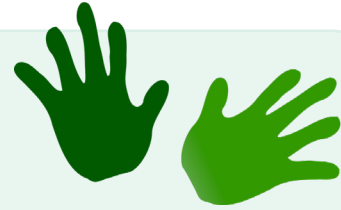
1. Children can use Spider to add 10 to 2-digit numbers using a 1-100 grid.

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Work in pairs

Things you will need:

- A 1-100 grid
- A spider
- Spider sums
- A pencil



What to do:

- Choose a Spider sum.
- Place Spider on the first number in the sum.
- Use Spider to add 10. Write the answer in the sum.
- Repeat for as many sums as you can.

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

Make up some of your own Spider sums.

Learning outcomes:

- I can use Spider to add 10 to 2-digit numbers.

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$18 + 10 =$

$24 + 10 =$

$27 + 10 =$

$38 + 10 =$

$36 + 10 =$

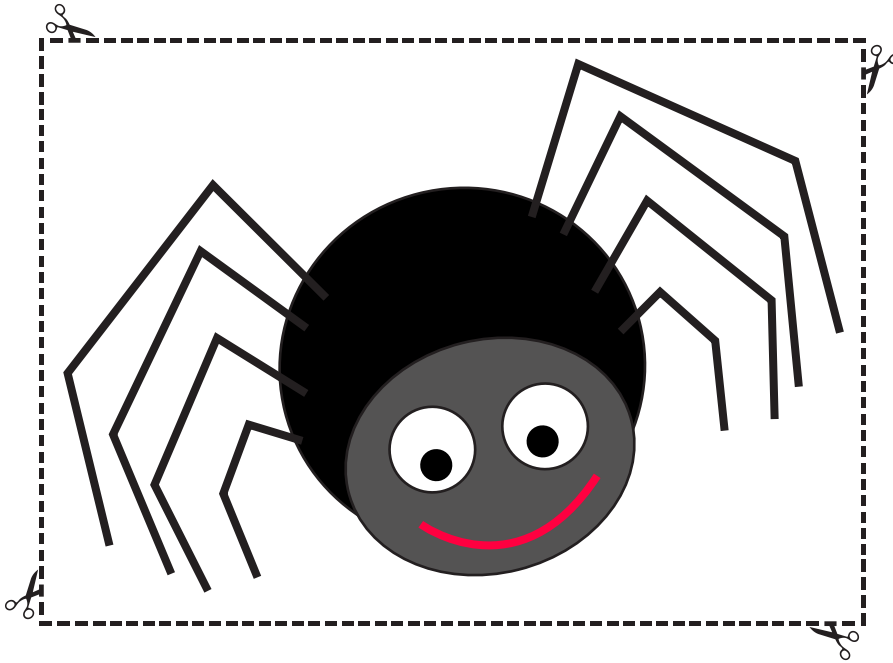
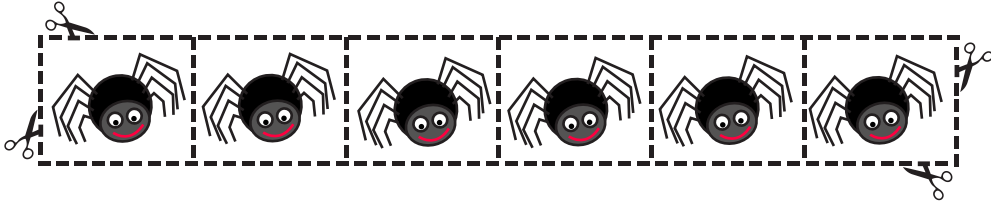
$50 + 10 =$

$42 + 10 =$

$85 + 10 =$

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