

5: Target numbers

- Here you can see the number cards 1, 2, 3, 4, and 5 and the symbols +, - and × have been used to make a mathematical statement with the answer of 17.

$$(5 + 2) \times 3 - (4 \times 1) = 17$$

- Brackets have also been used to make sure that the $3 + 2$ is carried out first.
- Make statements with answers for each of the numbers between 1 and 20. You may use brackets.
- You must use all five digits each time, but only once.
- You can use the symbols as often as you wish.

6: 1001 calculations

You will need a calculator and a partner.

- Give your partner a calculator and ask them to write down a three-digit number, such as 347. Ask them to create a six-digit number from it by repeating the first three digits. This example would give 347 347. They must not show you the number.
- Tell them that you are going to perform some lightning fast calculations. Here is what to do.
- Ask them to divide their six-digit number by 7. Now ask them to divide their result by 11. Then ask them to divide the result by their original number.
- After a short pause, tell them that the answer is 13.
- Can you discover how this calculation feat works?

