## Number Jugg/fing

Here are two number challenges.
Find out how each challenge works by following the steps several times for each challenge. Use a different starting number each time. Discuss the challenges with a classmate.

## Challenge One

## Step 1

Think of a number that's not too big. Write it down but don't let me see it!

## Step 2

Multiply it by 2 .

## Step 3

Multiply your last answer by itself.

## Step 4

Now divide by the square of the number you first thought of.


Your answer must be 4.


Using expressions and equations
4

## Challenge Two

## Step 1

Now l've got one for you ... Think of a whole number. Write it down.



Step 5
Take away the square of your starting number.


Your answer is 9!
Right. I'm glad I wrote my starting number down. Got it.


I see what you did!

Use what you have found out to make up your own "think of a number" challenges.

