Jemma thinks of a number.
[Extra]

## She says,

'Add 3 to my number and then multiply the result by 5 The answer is 35 '


What is Jemma's number?


Riaz thinks of a number.
[Extra]
He says,
'Halve my number and then add 17 The answer is 23 '

What is Riaz's number?


Josh thinks of a number.
[2005]

## He adds 4

He multiplies his result by 3
Then he takes away 9


His final answer is 90

## What number did Josh start with?



Lara chooses a number less than 100
She divides it by 3 and then subtracts 11
She then divides this result by 2
Her answer is 10.5
What was the number she started with?


Every day he ate 10 cherries and gave 5 away.

After he gave the last 5 cherries away, he had eaten 40 cherries altogether.


How many cherries did Seb have at the start?


Liam thinks of a number.
[2010]
He divides it by 9 and then adds 25 to the result.

His answer is 36


What number did Liam start with?


She divides it by 2 and then adds 6
She then divides this result by 3
Her answer is 4.5

What was the number she started with?


Monica thinks of a whole number.
[Extra] She multiplies it by 3
She rounds her answer to the nearest 10

The result is 40
Write all the possible numbers that Monica could have started with.


She adds the two numbers together and divides the result by 2
Her answer is 44

One of Emily's numbers is 12

What is Emily's other number?


Dev thinks of a whole number.
He multiplies it by 4
He rounds his answer to the nearest 10
The result is 50

Write all the possible numbers that Dev could have started with.

11 Rita chooses a number less than 50
[Extra] She adds 4 and then multiplies the result by 5
She then divides the new result by 2
Her final answer is 40
What was the number she started with?


12 Danny thinks of a number.
[Extra] He doubles the number and then subtracts 3
He divides his result by 5
His final answer is 13

## What number did Danny start with?



13 Amy thought of a number.
[2014]
She added 0.5 to her number and then doubled the result.

Then she subtracted 0.5 and doubled the new result.

Her final answer was 61

What number did Amy start with?


14 Ben thinks of a number.
[2008]
He adds half of the number to a quarter of the number.

The result is 60


What was the number Ben first thought of?


Liam thinks of a number.
[2004]
He multiplies the number by 5 and then subtracts $\mathbf{6 0}$ from the result.

His answer equals the number he started with.


## What was the number Liam started with?



## 16

Sarah had a bag of cherries.
[2010]


She ate 5 cherries, then gave half of what she had left to Liam.
Liam ate 5 of his cherries, then gave half of what he had left to Amy.
Amy got 2 cherries.
How many cherries did Sarah have in her bag at the start?


