

## Inverse operation problems

1. Emily chooses two numbers.

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?



Show your **method**.  
You may get a mark.

2. Josh thinks of a number.

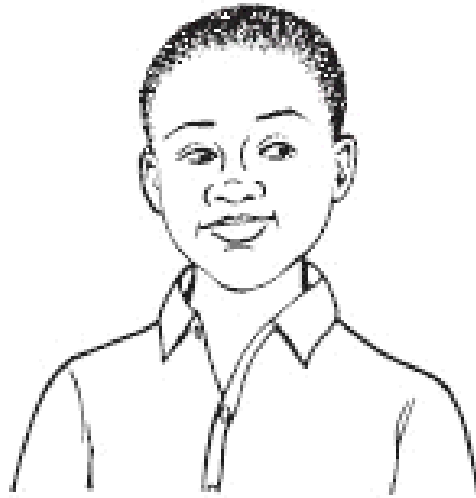
He adds 4

He multiplies his result by 3

Then he takes away 9

His final answer is 90

What number did Josh start with?



3. Sapna and Robbie have some biscuits.

Altogether they have **14** biscuits.

Sapna has **2 more** biscuits than Robbie.

How many biscuits do Sapna and Robbie each have?



**Sapna**

**Robbie**

4. Jemma thinks of a number.

She says,

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

What is Jemma's number?



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Riaz thinks of a number.

He says,

**'Halve my number and then add 17  
The answer is 23'**

What is Riaz's number?



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5.  $n$  stands for a number.

Complete this table of values.



$n$	$5n - 2$
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