I'm thinking of a number.
My number is both a multiple of 5 and a multiple of 6 .
What could my number be?
What else could it be?
What is the smallest number it could be?
I'm thinking of a number.
My number is a multiple of 4,5 and 6.
What could my number be?
What else could it be?
What is the smallest number it could be?
I'm thinking of a number that is 1 more than a multiple of 7 .
My friend is thinking of a number that is 1 more than a multiple of 4 .
Could we be thinking of the same number?
I'm thinking of a number that is 3 more than a multiple of 5 .
My friend is thinking of a number that is 8 more than a multiple of 10 .
Could we be thinking of the same number?
I'm thinking of a number that is 3 more than a multiple of 6 .
My friend is thinking of a number that is 2 more than a multiple of 4 .

## Could we be thinking of the same number?

## Here's a challenging extension:

We know that
When 59 is divided by 5 , the remainder is 4
When 59 is divided by 4 , the remainder is 3
When 59 is divided by 3 , the remainder is 2
When 59 is divided by 2 , the remainder is 1
Can you find a number with the property that when it is divided by each of the numbers 2 to 10 , the remainder is always one less than the number it has been divided by?

Can you find the smallest number that satisfies this condition?

