

# I Think of a Number Problems



1) I think of a number and call it  $x$ .  
I multiply my number by 6 and subtract 7 from the result.  
My answer is 29.  
What number did I think of? **6**

2) I think of a number and call it  $n$ .  
I multiply my number by 8 and subtract the result from 17.  
My answer is 1.  
What number did I think of? **2**

3) I think of a number.  
I subtract 3 from my number and multiply the result by 5.  
The answer is 65.  
What number did I think of? **16**

4) I think of a number.  
I double it, subtract the result from 7 and then multiply the result by 3.  
My answer is the number I first thought of.  
What number did I think of? **3**

5) I think of a number.  
I multiply my number by 4 and subtract 2 from the result.  
My answer is double the number I first thought of.  
What number did I think of? **1**

6) I think of a number.  
I divide my number by 9.  
The answer is equal to the first number I thought of subtracted from 90.  
What number did I think of? **81**

7) I think of a number.  
I add 7 to my number then divide the result by 2.  
The answer is the same as the number I first thought of subtracted from 11.  
What number did I think of? **5**

8) Jarnay and Kayla think of the same number. **3**  
Jarnay doubles her number then adds 3.  
Kayla multiplies her number by 4, subtracts 9 and then multiplies the result by 3.  
Their answers are the same.  
What number did they both first think of?