



## Solving Together – Got It!

This is a game for two players.  
The object of this game is to be the person who reaches the target of 23.

### Rules

Players take it in turns to add 1, 2, 3 or 4 to the total.  
The player who reaches the target of 23 wins the game.

Here's an example of how a game might go:

I choose	4	
You choose	2	so the total is now 6
I choose	3	so the total is now 9
You choose	1	so the total is now 10
I choose	4	so the total is now 14
You choose	3	so the total is now 17
I choose	2	so the total is now 19
You choose	4	so the total is now 23, and you have won!



Play the game several times.

**Can you find a winning strategy?**

*You could test your strategy by playing online against the computer.*

Once you have a winning strategy, change the target from 23 to a different total.

Can you adapt your winning strategy?

Now try changing the range of numbers you can add.

Can you adapt your strategy again?