

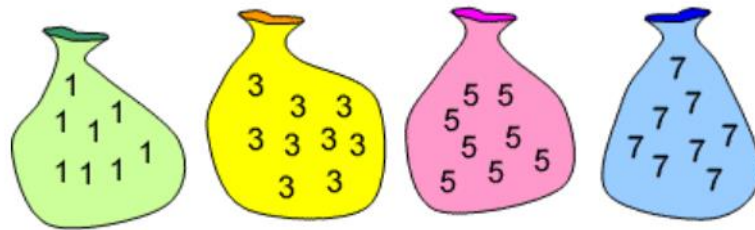
Objective: Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction as appropriate

Year 3 Task: 'Play to 37' <https://nrich.maths.org/10328>

Aim of the game: To be the player to add the final number to the 'running' total to make 37.

Equipment: pencil and paper for jottings

This is a game for two players.



Each bag above has unlimited 1s, 3s, 5s or 7s in it.

How to play:

1. Decide who is going first.
2. Player 1 chooses one of the numbers from the bags above (1, 3, 5 or 7).
3. Player 2 then chooses a number from one of the bags and adds this onto player 1's number to make a 'running' total.
4. Player 1 then has another turn and adds that number onto the 'running' total.
5. Play continues like this with each player choosing a number and adding it onto the 'running' total.

What strategies will you use to try to win the game?

Things to think about

- What if...?

How many numbers did you use altogether in the game?

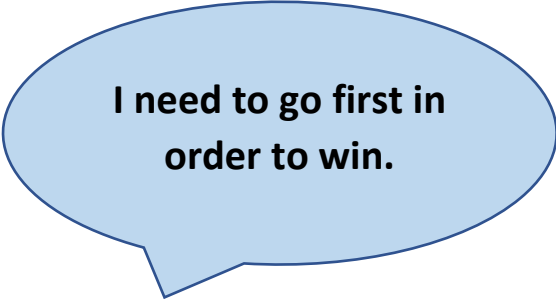
Have another go. How many numbers did you use this time?

What is the largest amount of numbers you could use to reach 37?


What is the smallest amount of numbers you could use to reach 37?

Can you use all the different amounts of numbers in between the largest and the smallest to reach 37?

What do you notice? Can you explain this?



I need to go first in order to win.



**Do you agree with me?
Why or why not?**