Investigation Guide- 13 Away (Task 59)

This investigation assumes that you are familiar with the task and have played it a few times.

Challenge:

Instead of 13 Away, what happens if you Make 13?

Rules:

- Take turns to place either 1, 2 or 3 counters until you have made 13.
- The winner is the person who places the last counter.

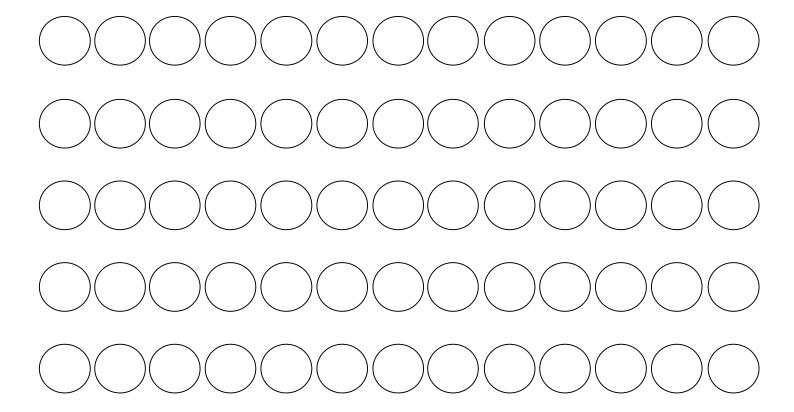
Your Task:

- 1. Play and record a few games.
- 2. Try to work out a winning strategy.
- 3. Record and discuss your strategies below.

Example Recording:

A	В	В	А	А	А	В	В	В	А	В	В	В

Therefore Player B is the winner because they placed the last counter.

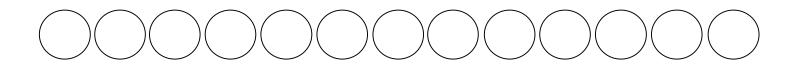


Investigation Guide Task 59, 13 Away

Discuss the following with your partner:

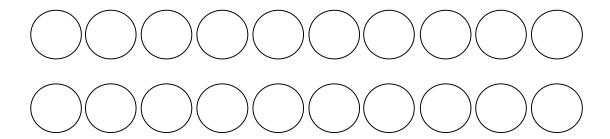
- 1. What strategy did you use to win?
- 2. Is there more than one winning strategy?
- 3. At what point in the game, did you know you were going to win?
- 4. Is there a way of winning from the first go?

Test your winning strategy against a new opponent. Record the game below.



Challenge:

What happens if you make 20 instead of 13?



Do your strategies change because you are making an even number?
What happens if you are allowed to place 1,2,3,4 or 5 counters down?
Can you come up with a challenge to test on a friend?