

1 Pick Up Sticks!

Try the following games of pick up sticks with a partner.

1.1 Scenario 1

There are 24 sticks in total, and the players can take up to 4 sticks.

Whoever picks up the last stick *loses*. Which player can guarantee a win?

1.2 Scenario 2

There are 35 sticks, and the players can take up to 4 sticks on their turns.

Whoever picks the last stick *wins*. Which player can guarantee a win?

2 Nim

Try the following games of Nim with a partner.

$$3 \oplus 1 \oplus 2$$

$$4 \oplus 5 \oplus 8$$

$$5 \oplus 7$$

$$2 \oplus 2$$

3 Chomp!

Try the following games of chomp with a partner.

