




Is the System Fair?
The person who removes the last box WINS!!!

GAME 1:

- Two people playing against each other take turns removing 3 boxes from a pile of 18 boxes.

GAME 2:

- Two people playing against each other take turns removing 2 boxes from a pile of 18 boxes.

Is the System Fair?
For each game:

- Write an expression that represents the number of boxes left at the end of each turn
- REMEMBER:
$x$ is the number of boxes at the start of each turn
- Can you predict who will win the game?


## Is the System Fair?

EXTENSION:

- Two people playing against each other take turns removing either 1,2 , or 3 boxes from a pile of 18 boxes.
- The person who removes the last box or boxes wins the game
- Play the game several times, keeping track of who goes first, how many boxes are removed on each turn, and who wins.
- Extension: Play the same game, but, this time change the number of total boxes from 24 to another number.

