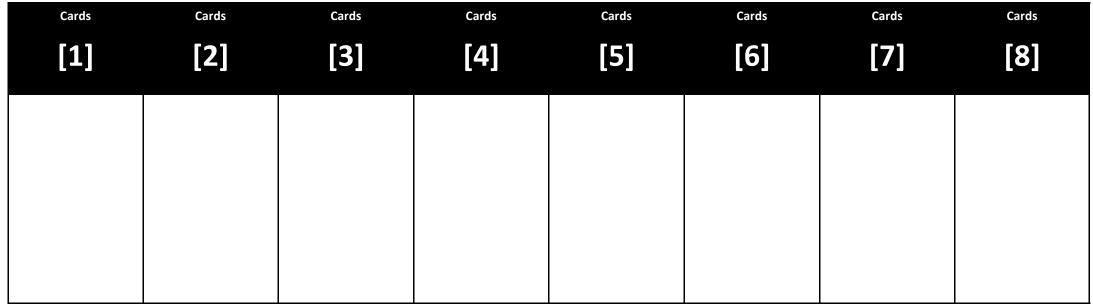
Investigating The Properties Of A Perfect Riffle Shuffle



Start with a set of 8 cards in order.

A perfect riffle shuffle interleaves the lower half with the top half.



An 'out-shuffle' leaves the first and last card on the outside.

Perform 3 consecutive 'out-shuffles'. What do you notice?

An 'in-shuffle' moves the first and last card in one place.

With the 8 cards starting in order perform 3 consecutive 'in-shuffles'.

What do you notice?

How many more 'in-shuffles' are needed to return the cards to their original order?

