

Flip 4 coins

- Ok, let us flip four (fair, independent) coins, let X be number of heads

- Outcomes:

HHHH	HTHH	THHH	TTHH
HHHT	HTHT	THHT	TTHT
HHTH	HTTH	THTH	TTTH
HHTT	HTTT	THTT	TTTT

- Values of X :

4	3	3	2
3	2	2	1
3	2	2	1
2	1	1	0

- Counting:

X	4	3	2	1	0
#	1	4	6	4	1

This is a row of Pascal's triangle!