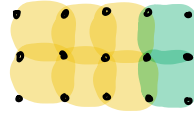
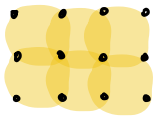


+1

+1



+2

4 new squares  
each time

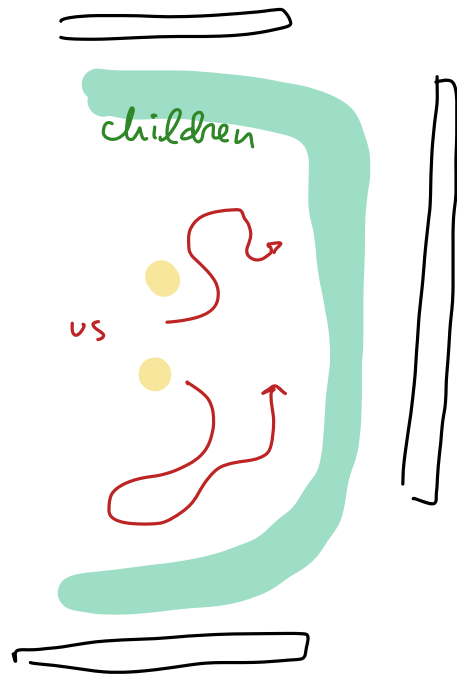


+



$C_{n-2}$

$C_{n-1}$



children

vs

## TO DO

→ Procure colored chalk for the children

→ Ask about how and from where the food is arriving. Do we need to get it? From who??

## Logistics

→ If we want to eat outside, go to the tables by the barn or the ledges by Bailey Hall

# Dominoes

Question ①: How many ways can you fill a  $2 \times 3$  grid with dominoes?

Question ②: What about  $2 \times 4$ ,  $2 \times 5$ ,  $2 \times 6$ ? Go back and also try  $2 \times 2$ . What do you notice about these numbers?

Question ③: Can we use the grids we've already filled to make a filling of a  $2 \times 7$  grid?

Can we use fillings of  $2 \times 2 \dots 2 \times 7$  grids to make a  $2 \times 8$  filling? Discuss!

## Squares

Question ①: Consider a  $3 \times 3$  grid of dots. How many squares can you draw inside?

Question ②:  $3 \times 4$ ?  $3 \times 5$ ?  $3 \times 6$ ? What do you notice about these numbers?

Question ③: If we draw 3 more dots, to get a  $3 \times 7$  grid, how many squares can we draw that we couldn't draw before?