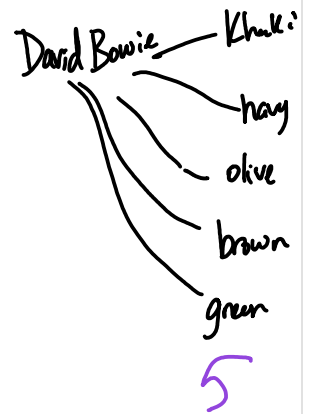
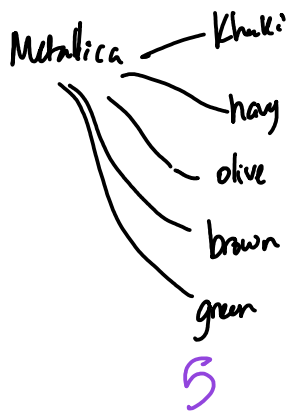
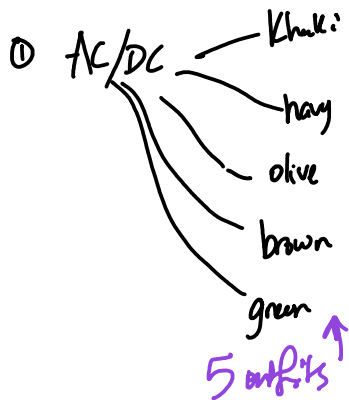


# Module 3

Tuesday, November 6, 2018 12:57 PM

## Counting

### Module 3 Worksheet 1



total: 20

### ② Add in shoes

each of the previous outfits has 2 option for shoes  
 $20 \times 2 = \underline{40}$  total outfits

### ③ How many sums?

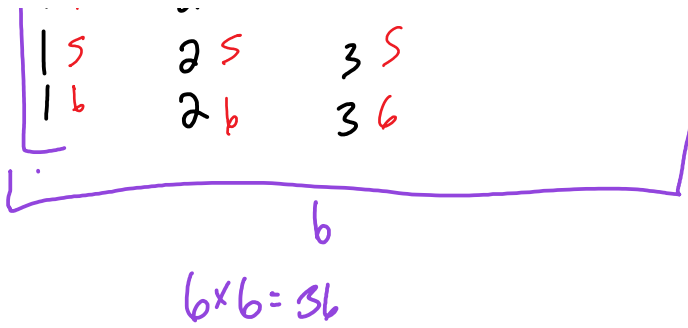
minimum:  $1 + 1 = 2$

maximum:  $6 + 6 = 12$

11 different sums.

### ④ Same red & black die 36 different options

6	1	2	3	.....	6
	1 2	2 2	3 2		6 2
	1 3	2 3	3 3		⋮
	1 4	2 4	3 4		⋮



⑤ Pizza toppings

a b c d e = toppings

a b	<del>b a</del>	<del>c a</del>	<del>d a</del>	<del>e a</del>
a c	b c	<del>c b</del>	<del>d b</del>	<del>e b</del>
a d	b d	c d	<del>d c</del>	<del>e c</del>
a e	b e	c e	d e	<del>e d</del>

*repeats*

10 different 2-topping pizza

3 toppings? - imagine this as the number of ways to leave 2 toppings off the pizza

Then we get 10 pizzas

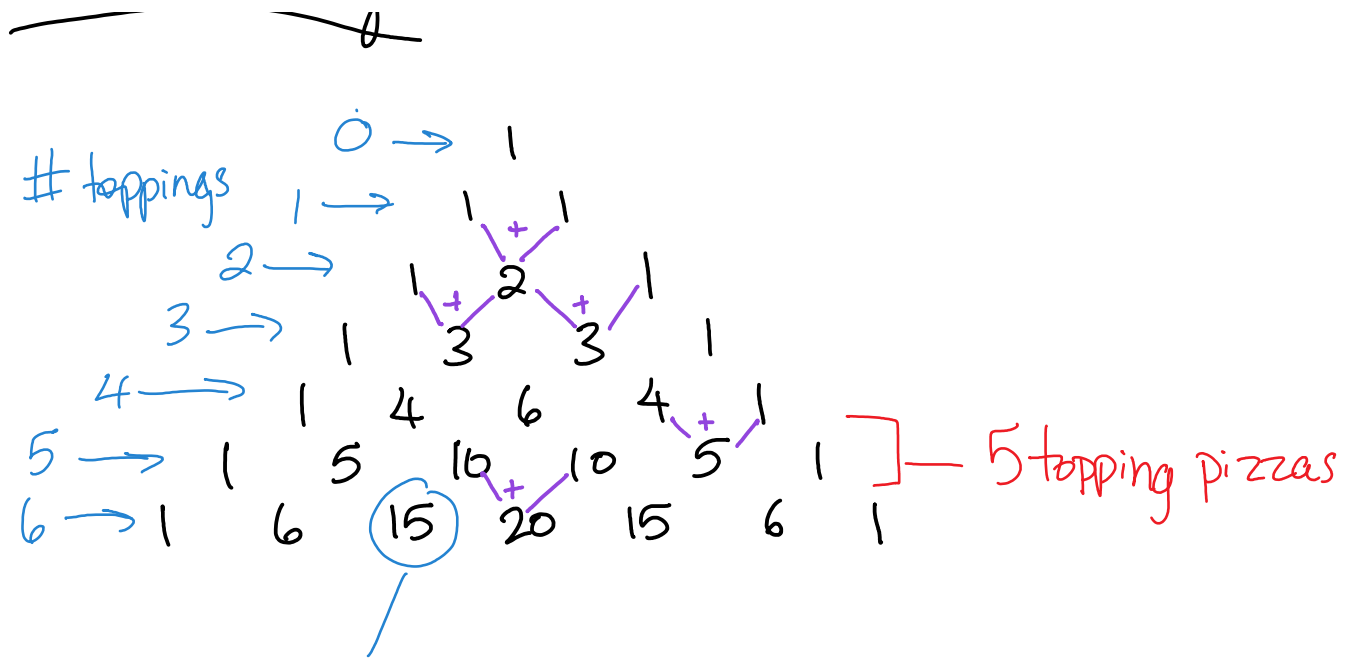
4 toppings      abcd    acde  
 5 pizzas        abce    bcde  
                   abde

5 toppings?

only one possible pizza because you use all the possible toppings

Magic

Pascal's Triangle



With 6 possible toppings, there are 15 pizzas with 2-toppings.