

Evaluate:

a) 
$$\frac{n!}{(n-1)!} = 4$$
 $\frac{n!}{(n-1)!} = 4$ 
 $\frac{n+2}{5(n+1)!} = 4$ 
 $\frac{n+2}{5} = \frac{1}{1}$ 
 $\frac{n+2}{5} = \frac{1}{1}$ 
 $\frac{n+2}{5} = \frac{1}{1}$ 

Evaluate:  

$$\frac{n!}{(n-1)(n-3)!} = 15$$

$$\frac{n!}{(n-1)(n-3)!} = 15$$

$$\frac{n!}{(n-2)(n-3)!} = 15$$

$$\frac{n!}{(n-3)(n-3)!} = 15$$

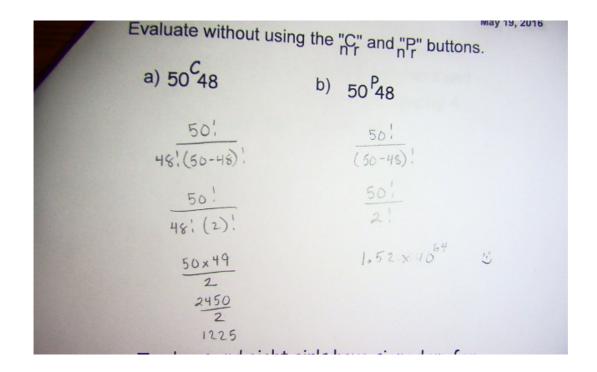
$$\frac{n!}{(n-2)(n-3)!} = 15$$

$$\frac{n!}{(n-3)(n-3)!} = 15$$

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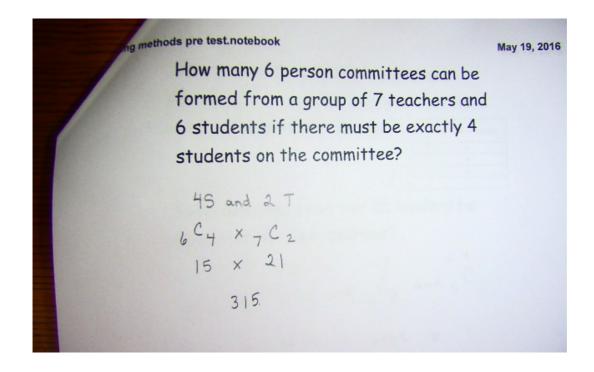
$$\frac{n!}{(n-3)(n-3)!} = 15$$

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Ten boys and eight girls have signed up for a trip. Only 5 students will be selected to go on the trip. Determine the probability that only boys will be on the trip.

Favourable ( Total 16 C 5 25 25 26 8568 29%):  $\frac{252}{8568}$  = 0.029



There are 10 boys and 15 girls in a class.

A group of 7 students is needed to work on a project. If at least 4 boys are needed, how many different groups of 57 students are possible?

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4B and 3G OR 5B and 2G OR 6B and 1G OR 7B and OG +0C4 \times 15C_3 + 10^C_5 \times 15C_2 + 10^C_6 \times 15C_1 + 10^C_7 \times 15^C_0
210 \times 455 + 252 \times 105 + 210 \times 15 + 120 \times 1
95550 + 26400 + 3150 + 120
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ing mou	Twenty-five Boomerang lead	ders	are	May 19, 2016
	signing up for training courses that have			
	a limited number of spaces.	Course	Number of people	
		2 3	4 8 7	
How many ways can the 25 leaders be				
	placed in the four courses?	,	- 1	
	course I # 2 # 3 25° 6 and 19°C4 and 15°C8	an an	d 7 C 7	
	177100 × 3876 × 643	5	x I	
4417238826000				
	OR			
	4,4 × 1012			