

1 = 3 letras =  $27^3$  a)  $27 \ 27 \ 27 \ 9 \ 9 \ 9$      $27^3 \cdot 9^3 = 129 \ 140 \ 163$   
4 dígitos = 9    L L L ###

b)  $27 \ 26 \ 25 \ 9 \ 8 \ 7 \ 6$      $\frac{27!}{24!} \cdot \frac{9!}{5!} = 53071200$   
L L L #####

2 = 9 clientes diferentes

$$9! = 9 \times 8 \times 7 \times 6 \dots \times 3 \times 2 \times 1$$

$$9! = 362880$$

3 = 7 competidores     $P_3^7 = \frac{7!}{4!} = 210$   
3 primeros

4 = 14 Totales

4 Platillos diferentes

$$C_4^{14} = \frac{14!}{4! \cdot 10!} = 1001$$