

Taller 5 - Daniel Amado.

1. a) $\frac{20!}{(20-7)! 7!} \rightarrow \frac{20!}{13! 7!} \rightarrow 77\,520$

b) $\left(\frac{5!}{(5-3)! 3!} \right) \cdot \left(\frac{15!}{(15-4)! 4!} \right) \rightarrow (10) \cdot (150150) \rightarrow 1'501\,500$

2. a) $\frac{52!}{(52-5)!} = \frac{52!}{47!} = 311'875\,200$

b) $\frac{13!}{(13-5)!} = \frac{13!}{8!} = 154\,400 \text{ c/palo} \xrightarrow{\times 4} 617\,760 \text{ en total}$

c) $4 \times 3 = 12$ combinaciones de palo
 $12[(13 \times 12 \times 11) \times (13 \times 12)] \rightarrow 12(1716 \times 156) = 3'212\,352$