(6) (a) $1 - \left(\frac{5}{6}\right)^4$ (b) $1 - \left(\frac{35}{36}\right)^{24}$

(7) (a) $1 - \frac{\binom{27}{3}}{\binom{50}{3}}$ (b) $\frac{\binom{23}{1}\binom{27}{2} + \binom{23}{2}\binom{27}{2}}{\binom{50}{3}}$

(8) $\frac{1}{4!}$ (9) (a) $\frac{5!}{7!}$ (b) $\frac{\binom{7}{3}\,4!}{7!}$

(11) (a) $\frac{10 \times 4}{\binom{52}{5}}$ (b) $\frac{10 \times 4^5 - 10 \times 4}{\binom{52}{5}}$

(c) $\frac{\binom{12}{1}\binom{48}{1}}{\binom{52}{5}}$ (d) $\frac{\binom{12}{2}\binom{4}{3}\binom{4}{2}\,2}{\binom{52}{5}}$

(14) (a) $\begin{cases} 1 - \frac{365 \times 364 \times 363 \times \cdots \times (365 - r + 1)}{(365)^r} & \text{si } r \le 365 \\ 1 & \text{si } r > 365 \end{cases}$

(b) $\begin{cases} 1 - \frac{12 \times 11 \times \cdots \times (12 - r + 1)}{(12)^r} & \text{si } r \le 12 \\ 1 & \text{si } r > 12 \end{cases}$

(15) (a) $P(\text{Aceptar}) = \begin{cases} \frac{\binom{100 - x}{5}}{\binom{100}{5}} & \text{si } x \le 95 \\ 0 & \text{si } x > 95 \end{cases}$

X = Número de artículos defectuosos

(b) $\frac{\binom{90}{k}}{\binom{100}{k}}$ y usar R