

$$1) C(9, 5) = \frac{9!}{(9-5)! \cdot 5!} = \frac{9!}{4! \cdot 5!} = 126$$

$$2) C(15, 5)$$

$$3) C = \{S\} \quad P = \frac{3}{5} = 0.6$$

$$A = \{S\} \quad = 60\% \rightarrow \frac{1}{60}$$

$$4) a) E = \{52\} \quad P(A) = \frac{4}{52} = \frac{1}{13} = 0.076$$

$$A = \{1\} \quad = 7.6\%$$

$$b) E = \{52\} \quad P(A) = \frac{1}{52} = 0.019$$

$$A = \{1\} \quad = 1.9\%$$

$$c) A = \{UnAS\}$$

$$B = \{Corazon\}$$

$$P(A) = \frac{4}{52} = 0.076$$

$$= 7.6\%$$

$$P(B) = \frac{13}{52} = 0.25$$

$$= 25\%$$

$$P(A \cap B) = \frac{1}{52} = 0.019$$

$$= 1.9\%$$

$$0.076 + 0.25 - 0.019$$

$$= 0.307$$

$$= 30\%$$

$$5) A = \text{Juego balanceado}$$

$$B = \text{Clase de Musica}$$

$$P(A) = \frac{60}{100} = 60\%$$

$$P(B) = \frac{60}{100} = 60\%$$

$$P(A \cap B) = \frac{20}{100} = 0.2$$

$$= 20\%$$

$$0.6 - 0.2 = 0.4$$

$$= 40\%$$