

## Eventos de probabilidad

### 1. Complemento de un evento

a)  $\frac{1}{40} = 0.025 = 2.5\%$  María

b)  $\frac{1}{39} = 0.0256 = 2.56\%$  Juan

c)  $\frac{13}{40} = 0.325 = 32.5\%$

### 2. Eventos independientes

a)  $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{8} = 0.125 = 12.5\%$

b)  $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{8} = 0.125 = 12.5\%$

### 3. Eventos dependientes, probabilidad condicional

a)  $\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4} = 0.25 = 25\%$

$A \cap B = 100\%$

b)  $\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4} = 0.25 = 25\%$

### 4. Selección al azar con o sin reemplazo

a) 1° Oreo =  $\frac{8}{30}$

2° romope =  $\frac{13}{29} = \frac{8}{30} \cdot \frac{13}{29} = \frac{104}{870} = 0.119 = 11.9\%$

b) 1° vainilla =  $\frac{9}{17}$

2° oreo =  $\frac{8}{16} = \frac{9}{17} \cdot \frac{8}{16} = \frac{72}{272} = 0.264 = 26.47\%$