

Unidad 4: Probabilidad y estadística.

Lección 10: Probabilidad.

Tema 3: Cálculo y comparación de probabilidades.

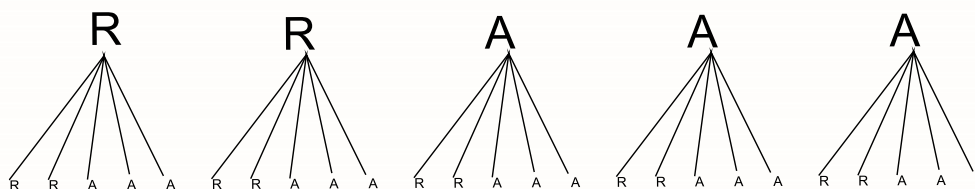
Guía de trabajo 15: Diagrama de árbol.

1.

- Lanzar una moneda, luego lanzar un dado de 6 caras.
- 12 resultados posibles.
- $A = \{C2, C4, C6\}$
- $\frac{3}{12} = \frac{1}{4} = 25\%$

2.

a.

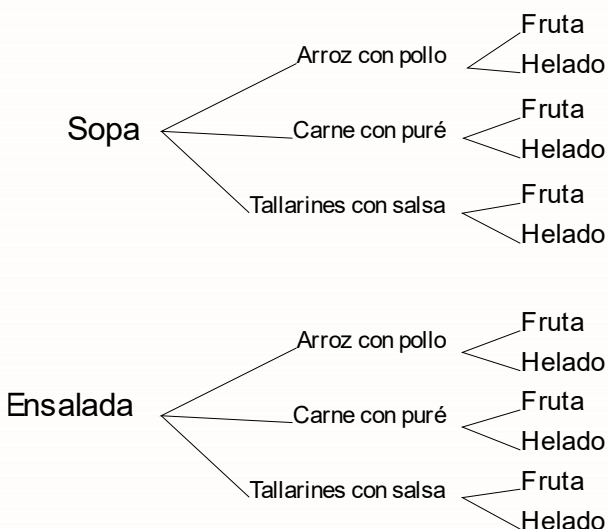


b.

- $\frac{9}{25} = 0,36$
- $\frac{6}{25} = 0,24$
- $\frac{13}{25} = 0,52$
- $\frac{12}{25} = 0,48$

3.

a.



b. 12 combinaciones.

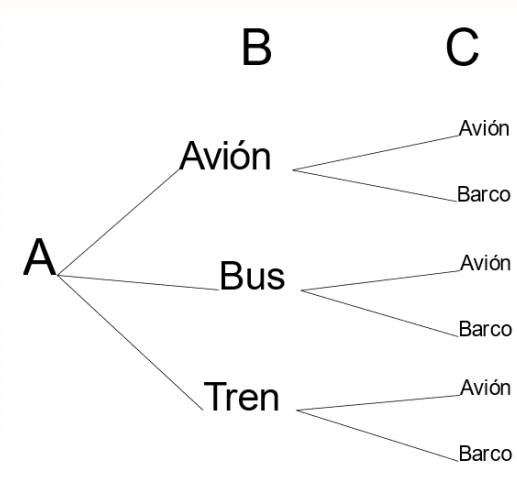
c.  $\frac{1}{12} = 8,3\%$

d.  $\frac{8}{12} = 66,6\%$

e.  $\frac{2}{12} = 16,6\%$

4.

a.



b. Hay 6 maneras distintas de llegar a C pasando por B.

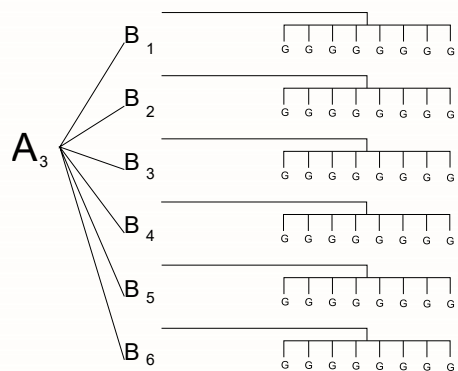
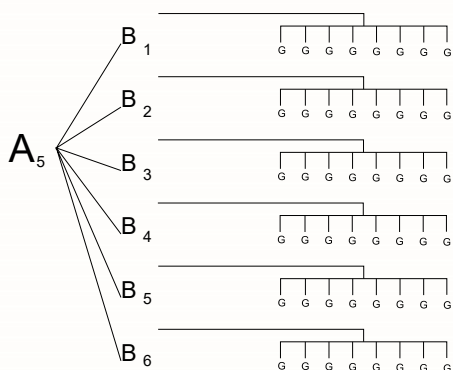
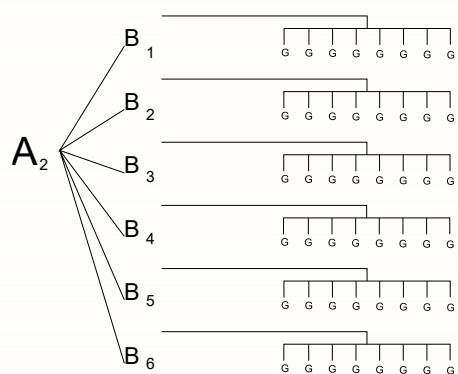
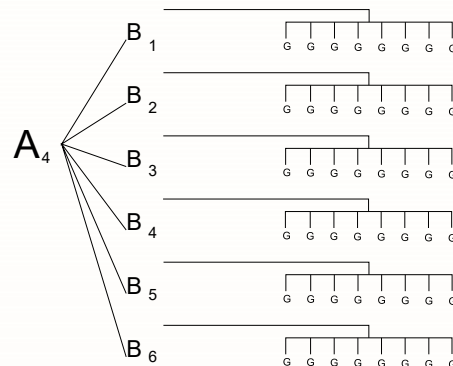
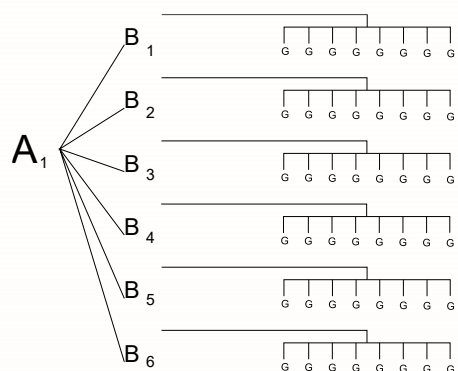
c.  $\frac{1}{6} = 0,166$

d.  $\frac{1}{6} = 0,166$

e.  $\frac{1}{6} = 0,166$

5.

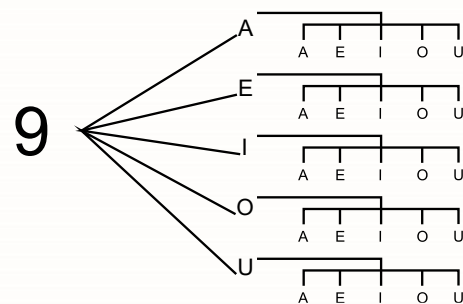
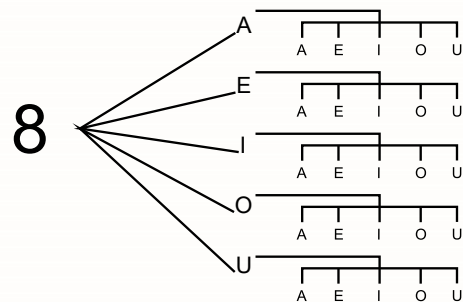
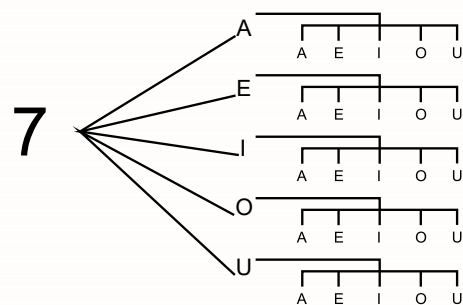
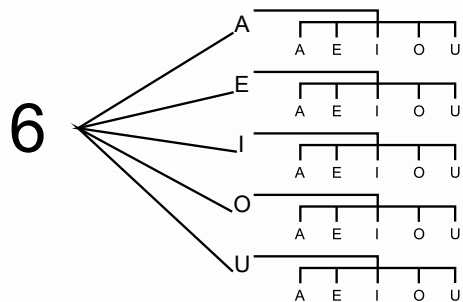
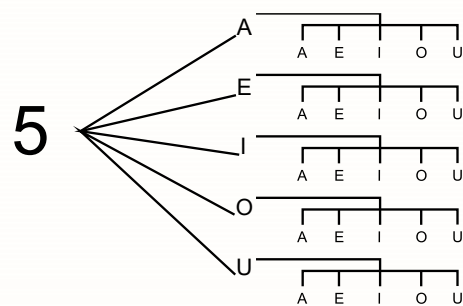
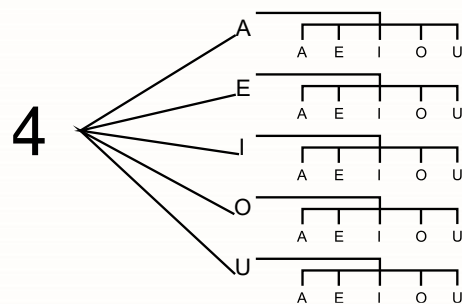
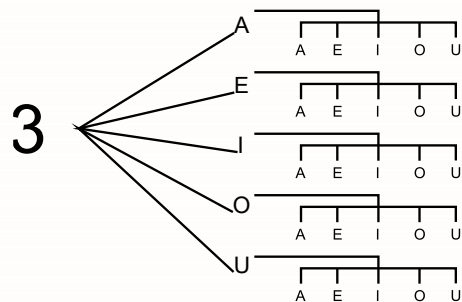
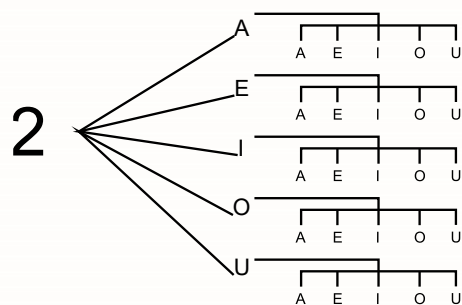
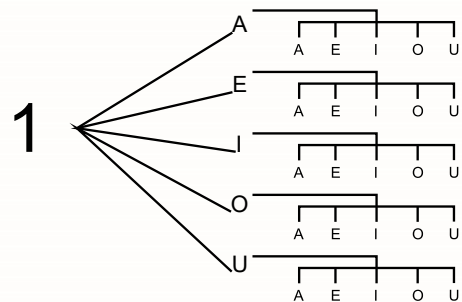
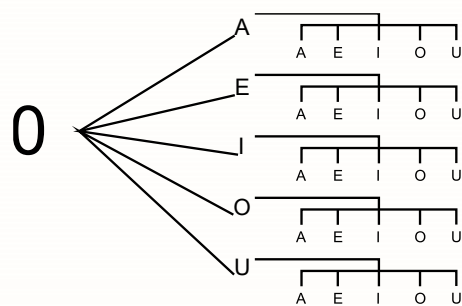
a.



b. Tendrá que elegir entre 240 tenidas diferentes.

6.

a.



b. Se pueden crear 200 claves distintas.

c.  $\frac{1}{200} = 0,05\%$

d.  $\frac{1}{200}$

e.  $\frac{50}{200} = 0,25$

f.  $\frac{25}{200} = 0,125$

g.  $\frac{90}{200} = 0,45$

h.  $\frac{25}{200} = 0,125$

➔ Ayuda en la visualización de datos y casos posibles.