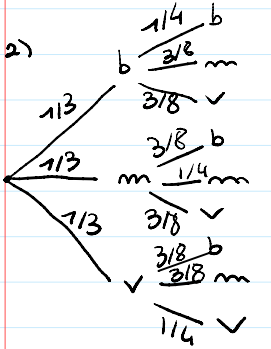


Exo:Mettre en classe:

① urne (3b, 3v, 3m) - 9 boules - 2 tirages sans remise

1) $p(v_1) = \frac{3}{9} = \frac{1}{3}$



$$3) p(m_1 \cap v_2) = p(m_1) \cdot p(v_2) \\ = \frac{1}{3} \cdot \frac{3}{8} = \frac{1}{8}$$

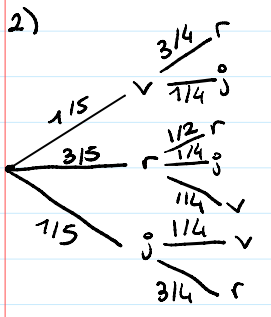
$$4) p(b_2) = p((b_1 \cup m_1 \cup v_1) \cap b_2) - \text{option} \\ = p(b_1 \cap b_2) + p(m_1 \cap b_2) + p(v_1 \cap b_2) \\ = p(b_1) \cdot p_{b_1}(b_2) + p(m_1) \cdot p_{m_1}(b_2) + p(v_1) \cdot p_{v_1}(b_2) \\ = \frac{1}{3} \cdot \frac{1}{4} + \frac{1}{3} \cdot \frac{3}{8} + \frac{1}{3} \cdot \frac{3}{8} \\ = \frac{1}{3} \left(\frac{1}{4} + \frac{3}{8} + \frac{3}{8} \right) = \frac{1}{3}$$

5) $p(\bar{b}_2) = 1 - p(b_2) = \frac{2}{3}$

• Rappel: \cap - intersection - et - x• \cup - union - ou - +• $p_B(A) = p(A)$ sachant B

② urne (1v, 3r, 1g) - 5 boules - 2 tirages sans remise

1) $p(r_1) = \frac{3}{5}$



$$3) p(g_1 \cap r_2) = p(g_1) \cdot p_{g_1}(r_2) \\ = \frac{1}{5} \cdot \frac{3}{4} = \frac{3}{20}$$

$$4) p(v_2) = p(r_1 \cap v_2) + p(g_1 \cap v_2) \\ = p(r_1) \cdot p_{r_1}(v_2) + p(g_1) \cdot p_{g_1}(v_2) \\ = \frac{3}{5} \cdot \frac{1}{4} + \frac{1}{5} \cdot \frac{1}{4} \\ = \frac{1}{4} \cdot \left(\frac{3}{5} + \frac{1}{5} \right) = \frac{1}{4} \cdot \frac{4}{5} = \frac{1}{5}$$

1 - 100%

$\frac{1}{2} = 0,50 - 50\%$

$\frac{1}{3} = 0,33 - 33\%$

$\frac{1}{4} = \frac{1}{2} \cdot \frac{1}{2} = 0,25 - 25\%$

$\frac{1}{5} = \frac{1}{10} \cdot 2 = 0,2 - 20\%$

$\frac{1}{6} = \frac{1}{3} \cdot \frac{1}{2} = 0,165$

③ urne (5v, 2o, 2b) - 9 boules - 2 tirages avec remise

1) $p(o_1) = \frac{2}{9}$ soit 22%

$\frac{1}{8} = \frac{1}{4} \cdot \frac{1}{2} = 0,125$

$\frac{1}{9} = \frac{1}{3} \cdot \frac{1}{3} = 0,11$

2) ...

$$3) p(b_1 \cap o_2) = p(b_1) \cdot p(o_2) \\ = \frac{2}{9} \cdot \frac{2}{9} = \frac{4}{81}$$

4) $p(v_2) = p(v) = \frac{5}{9}$

