01 →

A AMARAS

A

A

R

R

S

~~AAAAAS~~

$\frac{3}{6} \cdot \frac{2}{5} \cdot \frac{2}{4} \cdot \frac{1}{3} \cdot \frac{1}{2} \cdot 1 = \frac{12}{720} = \frac{6}{360} = \frac{1}{60}$ //

02 →

70 → FÍSICA

80 → QUÍMICA

150

$\frac{80}{150} = \frac{8}{15}$ //

03 →

2 BRANCAS

3 PRETAS

4 VERDES

$\frac{2}{9} \cdot \frac{1}{8} + \frac{3}{9} \cdot \frac{2}{8} + \frac{4}{9} \cdot \frac{3}{8}$

$\frac{2}{72} + \frac{6}{72} + \frac{12}{72}$

$\frac{20}{72} = \frac{10}{36} = \frac{5}{18}$ //

04 →

$P(A) = 0.2$

$P(B) = P$

$P(A \cup B) = 0.6$

$P(A \cap B) = P(A) \cdot P(B)$

$P(A \cap B) = 0.2 \cdot P$

$P(A \cup B) = P(A) + P(B) - P(A \cap B)$

$0.6 = 0.2 + P - 0.2P$

$0.6 = 0.2 + 0.8P$

$0.8P = 0.4$

$P = \frac{0.4}{0.8} = \frac{1}{2}$ //

05 →

$P(H) = \frac{2}{5}$

$P(M) = \frac{2}{3}$

a] $P(H \cap M) = P(H) \cdot P(M) = \frac{2}{5} \cdot \frac{2}{3} = \frac{4}{15}$ //

b] $P(H \cap \bar{M}) = P(H) \cdot P(\bar{M}) = \frac{2}{5} \cdot \frac{1}{3} = \frac{2}{15}$ //

c] $P(\bar{H} \cap M) = P(\bar{H}) \cdot P(M) = \frac{3}{5} \cdot \frac{2}{3} = \frac{6}{15}$ //

d] $P(\bar{H} \cap \bar{M}) = P(\bar{H}) \cdot P(\bar{M}) = \frac{3}{5} \cdot \frac{1}{3} = \frac{3}{15}$ //

e] $P(H \cap \bar{M} \cup \bar{H} \cap M) = P(H \cap \bar{M}) + P(\bar{H} \cap M) + P(H \cap M) = \frac{2}{15} + \frac{6}{15} + \frac{4}{15} = \frac{12}{15} = \frac{4}{5}$ //