Problem =
$$\frac{15}{158}$$

P(1 event) = $\frac{15}{158}$

P = $\frac{158}{158}$

$$P(p|W_0) = \frac{p(W_4|p) \cdot p(p)}{p(W_4)} = \frac{0.36 \times 0.75}{0.36 \times 0.75 + 0.456 \times 0.25}$$

$$0.156$$