5 In question 64 (above), $P(B/A')$ is equal to

(a) $\dfrac{1}{5}$
(b) $\dfrac{3}{10}$
(c) $\dfrac{1}{2}$
(d) $\dfrac{3}{5}$

$$P(B/A') = \frac{P(B \cap A')}{P(A')} = \frac{P(B) - P(B \cap A)}{1 - P(A)}$$

$$= \frac{\dfrac{3}{5} - \dfrac{3}{10}}{1 - \dfrac{1}{2}} = \frac{\dfrac{6-3}{10}}{\dfrac{1}{2}} = \frac{6}{10} = \frac{3}{5}$$