

Probability Assignment

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Question: If $\Pr(AB) = \frac{7}{10}$ and $\Pr(B) = \frac{17}{20}$, then $\Pr(A|B)$ equals

- 1) $\frac{14}{17}$
- 2) $\frac{17}{20}$
- 3) $\frac{7}{8}$
- 4) $\frac{1}{8}$

Solution: We know

$$\Pr(A|B) = \frac{\Pr(AB)}{\Pr(B)} \quad (1)$$

$$= \frac{\frac{7}{10}}{\frac{17}{20}} \quad (2)$$

$$= \frac{14}{17} \quad (3)$$