

Stats / Probabilities of an event and its complement

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COUNTING AND PROBABILITY
Probabilities of an event and its complement

(a) For the event in the table, check the outcome(s) that are contained in the event. Then, in the last column, enter the probability of the event.

Event	1	2	3	4	5	Probability
X	☐	☐	☒	☒	☐	$P(X) = \frac{2}{5}$
not X	☒	☒	☐	☐	☒	$P(\text{not } X) = \frac{3}{5}$

(b) Subtract.

$1 - P(X) = \frac{3}{5}$

(c) Select the answer that makes the sentence true.

$1 - P(X)$ is the same as (Choose one) $P(\text{not } X)$

Handwritten notes: $P(X) = \text{grey}$, $P(\text{not } X) = \text{not grey}$

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