

Assignment 5

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Question: If $\frac{2}{11}$ is the probability of an event, what is the probability of the event 'not A'.

Solution:

Let A be the given event, then:

Probability of event A , that is, $\Pr(A) = \frac{2}{11}$

To find: Probability of not A , that is, probability of the event complementary to A .

Let $\Pr(not A) = \Pr(A')$

we know that;

$$\Pr(A) + \Pr(A') = 1 \quad (1)$$

$$\Pr(A') = 1 - \Pr(A) \quad (2)$$

$$= 1 - \left(\frac{2}{11}\right) \quad (3)$$

$$= \left(\frac{9}{11}\right) \quad (4)$$

Final Answer: The probability of the event 'not A' is $\left(\frac{9}{11}\right)$