

Jack and Jill are taking a course with only three possible grades: A, B, C. The chance that Jack gets a B is 0.3. The chance that Jill gets a B is 0.4. The chance that neither gets an A but at least one gets a B is 0.1.

A Suggest a sample space (list all possible outcomes).

$\Omega = \{AA, AB, BA, BB, AC, BC, CA, CB\}$

	Jill		
	A	B	C
Jack	A	AA	AB
	B	BA	BB
	C	CA	CB

B What outcomes constitute the event "Jack gets a B"?

$\{BA, BB, BC\}$

C What outcomes constitute the event that at least one gets a B but neither gets an A?

BB, BC, CB

D What is the probability of the event that at least one gets a B but neither gets a C?

$$BA = 0.3$$

$$AB = 0.4$$

$$BB = 0.1$$

$$\begin{pmatrix} AB \\ BB \\ CB \end{pmatrix} + \begin{pmatrix} BA \\ BB \\ BC \end{pmatrix} = \begin{pmatrix} AB \\ BA \\ BB \\ BC \\ CB \end{pmatrix}$$

$$0.3 + 0.4 - 0.1 = \boxed{0.6}$$

$$- \begin{pmatrix} BB \\ BC \\ CB \end{pmatrix}$$

$$0.3 = P(BA \ BB \ BC)$$

$$0.4 = P \begin{pmatrix} AB \\ BB \\ CB \end{pmatrix}$$

$$0.1 = P \begin{pmatrix} BB \ BC \\ CB \end{pmatrix}$$

$$= \begin{pmatrix} AB \\ BA \\ BB \end{pmatrix} \checkmark$$

Apex Quiz Answers Probability And Statistics

Lei Huang



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