

Tutorial 4 Probability and Probability Distributions

Question 1

Which of the following is a valid discrete probability distribution?

(a)

X		0	1	2	3	4
P(X = x)	=	0.2	0.3	0.4	0.5	-0.4

(b)

X		0	1	2	3	4
P(X = x)	=	0.1	0.2	0.3	0.4	0.5

(c)

X		0	1	2	3	4
P(X = x)	=	0.1	0.05	0.25	0.3	0.25

(d)

X		-5	-3	8	10	15
P(X = x)	=	0.3	0.1	0.2	0.15	0.25

A valid probability distribution is one which abides by the two following rules:

- $0 \leq P(A_i) \leq 1$
- $\sum P(A_i) = 1$

In other words all probabilities are positive between 0 and 1 and all probabilities sum to 1.

(a) has a negative probability and (b) and (c) have probabilities which do not sum to 1. (d) is the answer.

Question 2

The HR Manager of a large company solicited employees feelings toward a revision in the industry award. A sample of 200 employees were questioned on whether or not they are For (F) or Against (A) the change. The survey consisted of 130 Blue Collar Workers (B), 50 White Collar Workers (W) and 20 Managers (M). Sixty seven Blue Collar, 32 White Collar and 11 Managers were for the plan.

- Construct a joint Probability Table
- Calculate: $P(B)$, $P(M)$, $P(F)$ and $P(\bar{F})$
- Find the Probability that a randomly selected employee is:
 - not a manager
 - a blue collar worker and in favour of the proposed revision in the industry award
 - a blue collar worker or they are in favour of the proposed revision to the award
- Given that the employee chosen is a manager, find the probability that he/she is against the proposed revision of the award.
- Do the employees responses appear to be independent of their type of employment

	Blue Collar (B)	White Collar (C)	Manager (M)	Total
For (F)	67	32	11	110
Against (A)	63	18	9	90
Total	130	50	20	200

(a)

	Blue Collar (B)	White Collar (C)	Manager (M)	Total
For (F)	0.335	0.16	0.055	0.55
Against (A)	0.315	0.09	0.045	0.45
Total	0.65	0.25	0.1	1

(b) From the table:

- also found in the margin of the joint probability table

- This uses the complementary function rule

(c)

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