Question: The probability that at least one of the events A and B occurs is 0.6. If A and B occur simultaneously with probability 0.2, then P(A') + P(B') is

- (A) 0.4
- (B) 0.8
- (C) 1.2
- (D) 1.6

Solution: :

TABLE 0 Table-1

Parameters	values	Description
p(A+B)	0.6	Probability that atleast one of the events occur
$p(A \cdot B)$	0.2	Probability that A and B occur simultaneously

$$\therefore p(A+B) = p(A) + p(B) - p(A \cdot B) \tag{1}$$

$$p(A) + p(B) = 0.8 (2)$$

$$1 - p(A') + 1 - p(B') = 0.8$$
(3)

$$\therefore P(A') + P(B') = 1.2 \tag{4}$$