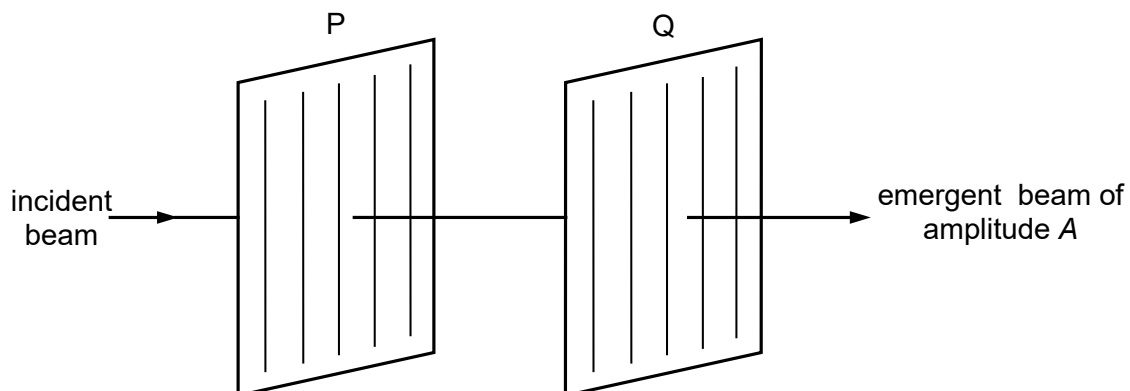**18** When two polarisers P and Q are placed so that their polarising directions are parallel, the amplitude of the emergent beam is A.

Q is rotated so that the amplitude of the emergent beam is halved.

Which one of the following represents the angle Q is rotated and the corresponding fractional reduction in the intensity of the emergent beam?

	angle	fractional reduction in intensity
A	60°	0.50
B	75°	0.75
C	120°	0.50
D	240°	0.75