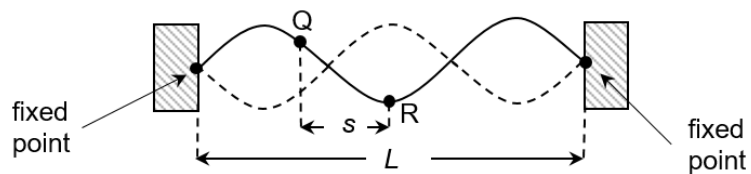**18** A stationary wave is formed on a stretched string of length L between two points as shown below.

Particles Q and R on the string are separated by distance s. The total energy of Q and of R are E_Q and E_R respectively.

Which of the following gives the correct phase difference between Q and R, and the relationship between E_Q and E_R?

	phase difference / rad	total energy
A	$\dfrac{2s}{L}\pi$	$E_Q = E_R$
B	$\dfrac{2s}{L}\pi$	$E_Q < E_R$
C	π	$E_Q = E_R$
D	π	$E_Q < E_R$