

- 22** Two coherent sources of sound S_1 and S_2 give rise to a minimum loudness at point P and a maximum loudness at point Q.

S_1 •

• P (minimum loudness)

• Q (maximum loudness)

S_2 •

The amplitude of the sound produced by S_2 is reduced. The frequency of the sound produced by both sources is unchanged.

What happens to the loudness of the sound at P and at Q?

	loudness at P	loudness at Q
A	decreases	decreases
B	increases	decreases
C	increases	no change
D	no change	no change