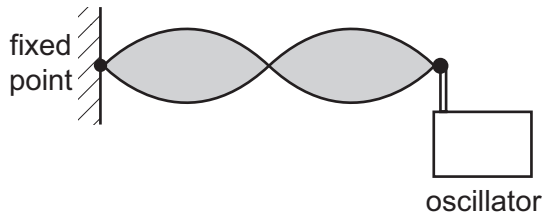


- 28** The speed of a transverse wave on a stretched string can be changed by adjusting the tension of the string. A stationary wave pattern is set up on a stretched string using an oscillator set at a frequency of 650 Hz.



How must the wave be changed to maintain the same stationary wave pattern if the applied frequency is increased to 750 Hz?

- A** Decrease the speed of the wave on the string.
- B** Decrease the wavelength of the wave on the string.
- C** Increase the speed of the wave on the string.
- D** Increase the wavelength of the wave on the string.

- 29** Noise reduction headphones actively produce their own sound waves in order to cancel out