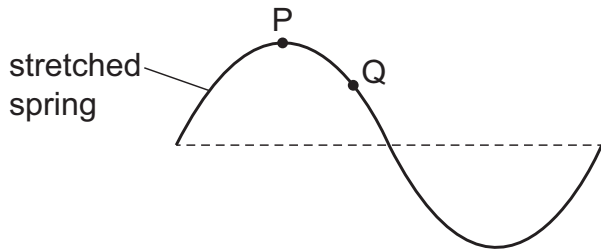


**29** The diagram shows a stationary wave on a stretched spring at an instant in time.



Two particles on the spring, P and Q, are shown.

Which statement about the vibrations of P and Q is correct?

- A** They have different frequencies.
- B** They have the same amplitudes.
- C** They have different periods.
- D** They are always in phase.