

- 24 The diagram shows a car travelling at a constant speed in a straight line between person P and person Q from point X to point Y.



The car sounds its horn continuously as it travels. The horn emits sound of constant frequency.

Which statements about what person P and person Q hear during the motion of the car are correct?

- 1 Person P hears a sound of increasing frequency.
  - 2 Person Q hears a sound of decreasing frequency.
  - 3 Person Q always hears a sound of higher frequency than person P.
- A** 1, 2 and 3  
**B** 1 and 2 only  
**C** 3 only  
**D** none of them