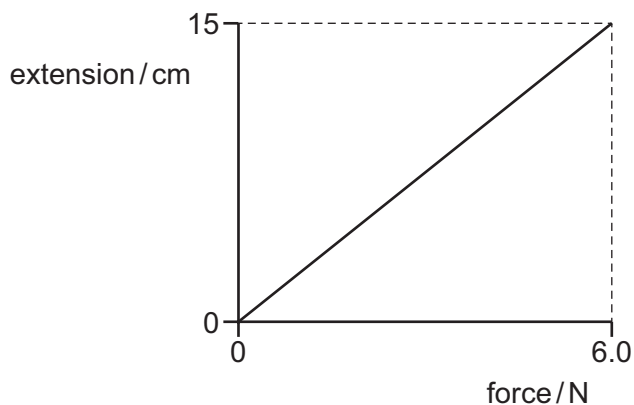


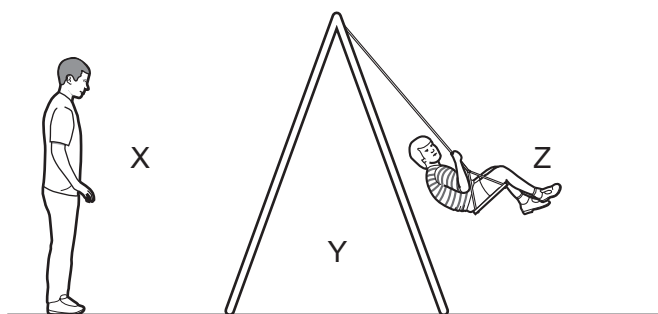
20 An extension–force graph for a spring is shown.



What is the spring constant of the spring?

- A** 0.025 N m^{-1} **B** 0.40 N m^{-1} **C** 2.5 N m^{-1} **D** 40 N m^{-1}

21 A man stands stationary in front of a swing. A child sits and swings.



The child blows a whistle that emits a sound at a constant frequency.

The man observes the frequency of the sound when the swing is at positions X, Y and Z.

When will the man hear the highest frequency?

- A** when the swing is at X
B when the swing is at Y and moving away from the man
C when the swing is at Y and moving towards the man
D when the swing is at Z