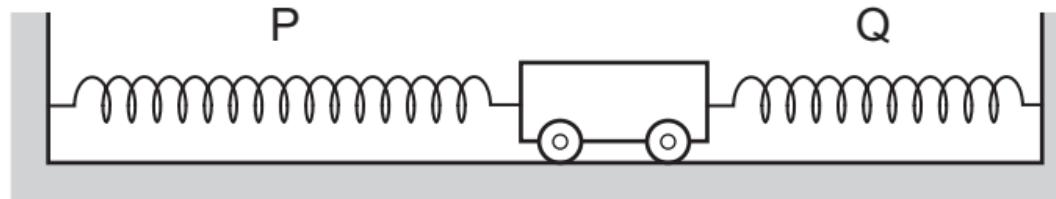


24 A trolley is held at rest between two steel springs.



Each spring has an unstretched length of 0.10 m.

Spring P has spring constant 60 N m^{-1} .

Spring Q has spring constant 120 N m^{-1} .

Spring P has an extension of 0.40 m.

What is the extension of spring Q?

A 0.10 m

B 0.20 m

C 0.30 m

D 0.80 m

25 A lift is supported by two steel cables, each of length 10 m and diameter 0.5 cm.