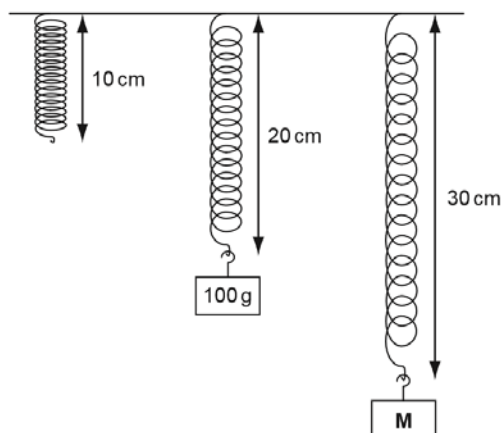


13.

Objects with different masses are hung on a 10 cm spring. The diagram shows how much the spring stretches.



The extension of the spring is directly proportional to the mass hung on it.

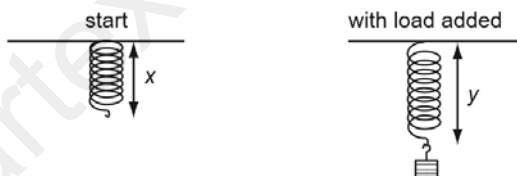
What is the mass of object M?

- A 110 g B 150 g C 200 g D 300 g

Ans:

14.

A student carries out an experiment to plot an extension / load graph for a spring. The diagrams show the apparatus at the start of the experiment and with a load added.



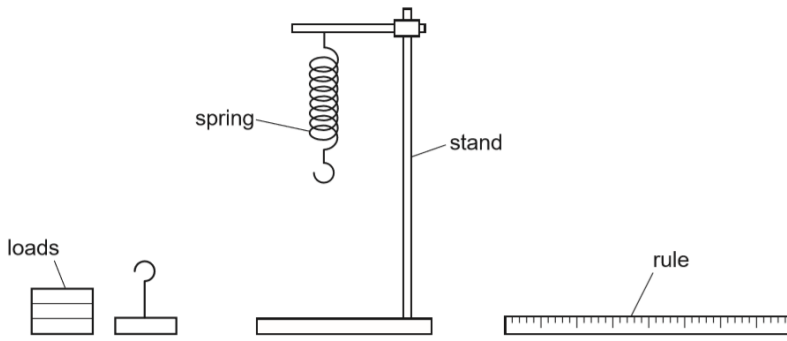
What is the extension caused by the load?

- A x B y C $y + x$ D $y - x$

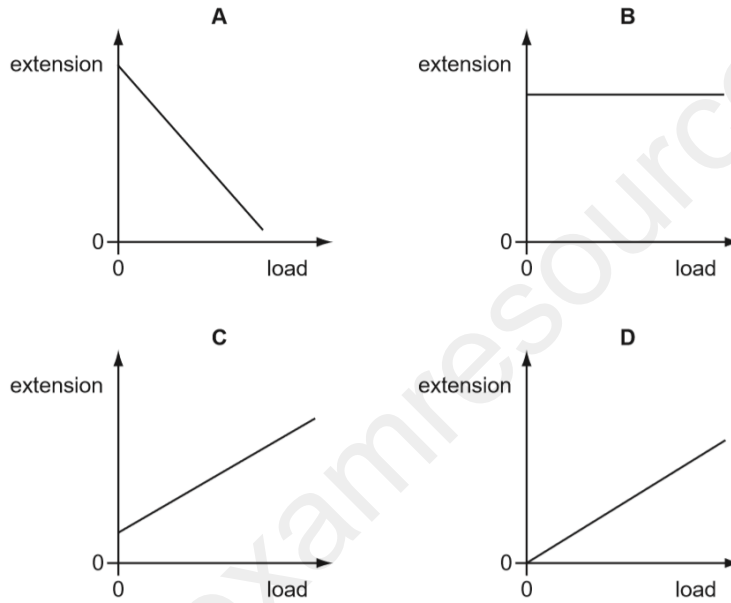
Ans:

15.

A spring is suspended from a stand. Loads are added and the extensions are measured.



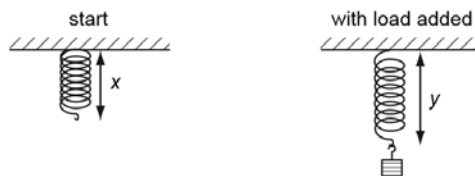
Which graph shows the result of plotting extension against load?



Ans:

16.

A student carries out an experiment to plot the extension-load graph for a spring. The diagrams show the apparatus at the start of the experiment and with a load added.



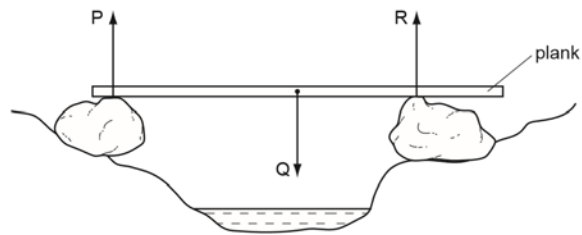
What is the extension caused by the load?

- A** x **B** y **C** $y+x$ **D** $y-x$

Ans:

17.

A wooden plank rests in equilibrium on two boulders on opposite sides of a narrow stream. Three forces of size P, Q and R act on the plank.



How are the sizes of the forces related?

- A $P + Q = R$
- B $P + R = Q$
- C $P = Q = R$
- D $P = Q + R$

Ans