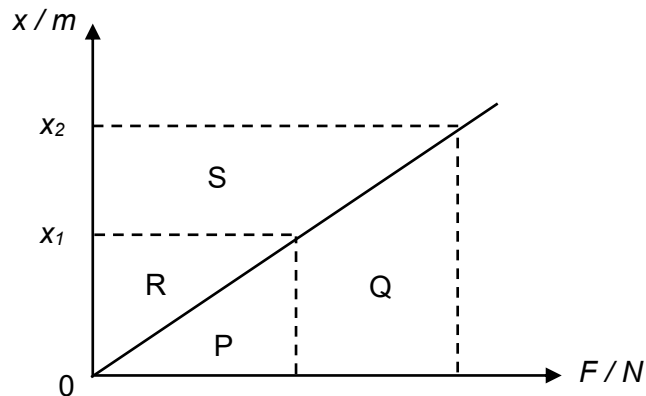**6** The variation with force of the extension of a spring is shown in the figure below. The work done in stretching the spring from x_1 to x_2 is given by the area

A   P + Q

B   S

C   R + S

D   Q