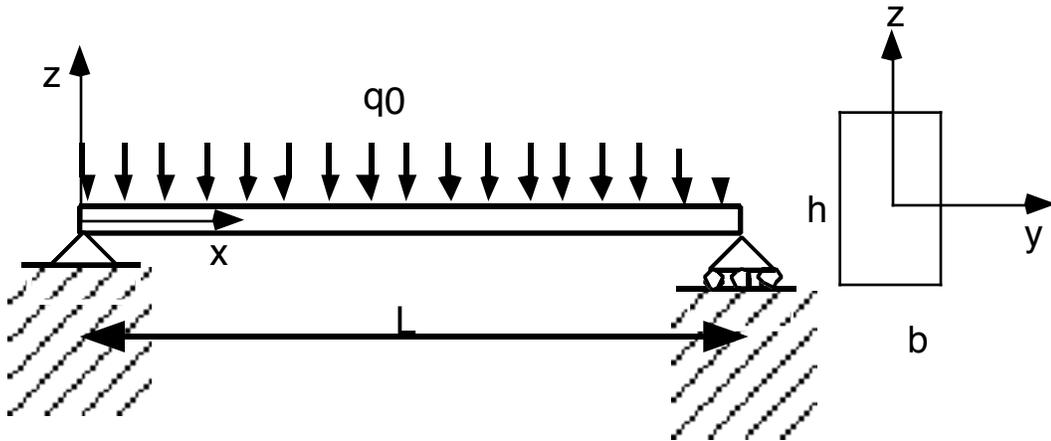


## M7 Concept Question 1

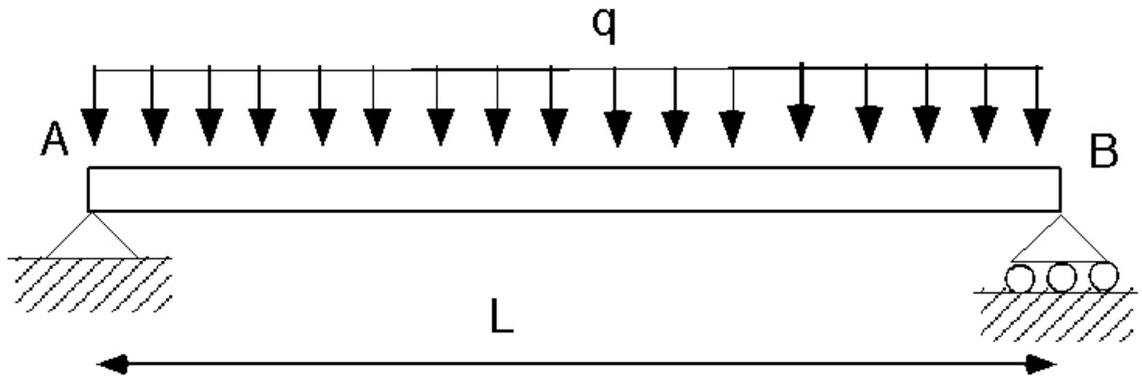
For the simply supported beam, loaded by a uniform distributed load,  $q_0$ , the maximum tensile stress will be found at :



1. At  $x=0, z=0$
2.  $x=L, z=+h/2$
3.  $x=L/2, z=-h/2$
4.  $x=L/2, z=+h/2$
5.  $x=L, z=-h/2$
6. Some other answer
7. Do not know/Do not understand

## M7 Concept Question 2

For the simply supported beam, loaded by a uniform distributed load,  $q_0$ , the most useful boundary conditions with which to determine the deformed shape,  $w(x)$  are:



1.  $M=0$  at  $x=0, x=L$
2.  $w(x)=0$  at  $x=0$  and  $x=L$
3.  $dw/dx = 0$  at  $x=L/2, w(x)=0$
4.  $S=0$  at  $x=L/2, M=0$  at  $x=0$
5. The beam is symmetric
6. Some other answer
7. Do not know/Do not understand