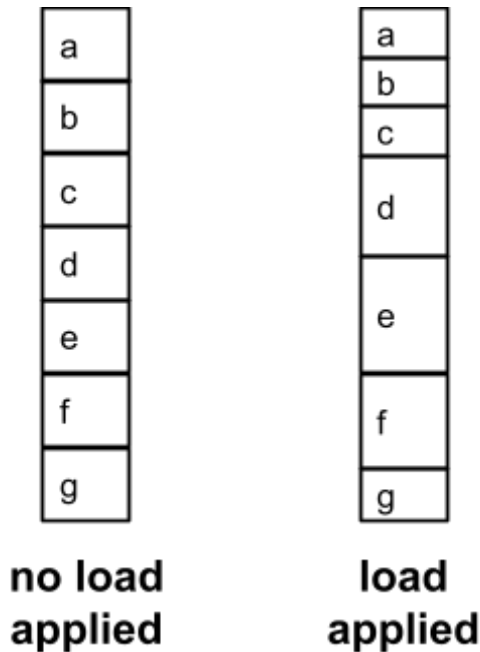


The figure below shows a deformable object without a load applied on the left and with an axial load applied on the right. Equally spaced horizontal lines were drawn on the object prior to the load being applied. The application of the load has resulted in the horizontal lines moving. The letters are simply labels used to refer to the sections of the object. Answer the questions below with respect to this figure.



- 1) Sections a, b, and c appear to have positive normal strain. (TRUE or FALSE)
- 2) Sections d, e, and f appear to have positive normal stress. (TRUE or FALSE)
- 3) This deformation could plausibly be achieved using only a concentrated force at the top and a concentrated force at the bottom. (TRUE or FALSE)
- 4) This deformation could plausibly result from the object being fixed between two walls and a few concentrated forces being applied elsewhere along the object. (TRUE or FALSE)