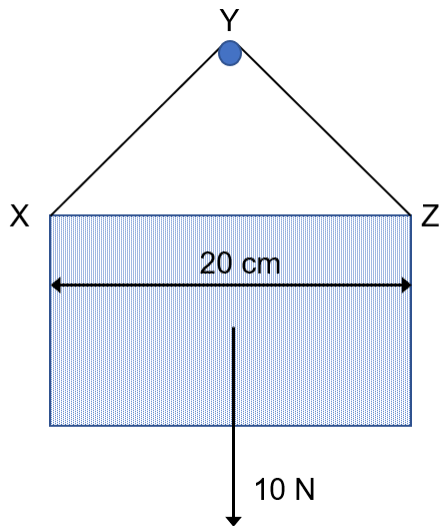**7**   A uniform rectangular metal sheet of length 20 cm and weight 10 N is to be suspended from a hook by a light cord XYZ, as shown below.

The material used for the cord can support a maximum tension of 20 N before breaking.

Determine the minimum length of cord that is required.

A   21 cm   **B**   23 cm   **C**   40 cm   **D**   80 cm