Instructions Student work

Activity 2 - Moment of Forces

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Activity
• 75 points

Due Jun 9, 2021, 11:59 PM

Problem:

Take a photo of any door with handle. Indicate its distance from the hinge point and the handle of the door. Find its Moment with respect to the hinge and the door handle. If the door handle has a horizontal force of 20 N. Justify the result, if the Handle distance is reduced ?

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Moment :

M = F * D **(HERE D = 45 & F = 20 N)**

Moment(M) = 20 * 45
= 900 N

When distance(D) is reduced the hinge moment also reduces.

$$M \propto D$$

Therefore the **door handle** is **fixed** at **end** of **the door** to provide **enough moment** to **open or close it**.