

1. CE Board May 2022

A simply supported girder of a bridge spans 25 m. The standard truck load (H load) consists of 2 moving loads, 4.3 m. apart. The loads are as follows:

$$P_1 = 71.2 \text{ kN}$$

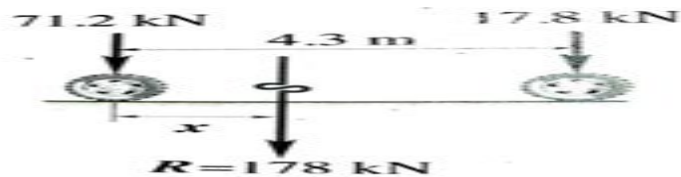
$$P_2 = 17.8 \text{ kN}$$



- ① Calculate the maximum support reaction.
- ② Calculate the maximum moment in the girder.
- ③ Calculate the maximum shear at mid-span.

Solution:

- ① Maximum support reaction.
Placed the biggest load at point B where max. reaction occurs.



$$\sum M_A = 0$$

$$25R_1 = 71.2(25) + 17.8(20.7)$$

$$R_1 = 85.94 \text{ kN}$$

Civil Engineering Board Exam Problems And Solutions

Mike Jess



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