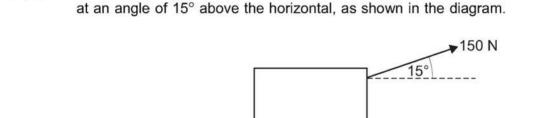
A boy attempts to move a wooden crate of mass 20 kg along horizontal ground. The coefficient of friction between the crate and the ground is 0.85

The boy applies a horizontal force of 150 N. Show that the crate remains stationary.

[3 marks]

Instead, the boy uses a handle to pull the crate forward. He exerts a force of 150 N.



Determine whether the crate remains stationary.

Fully justify your answer.

In this question use $g = 9.8 \,\mathrm{m \, s^{-2}}$

13

13 (b)

ate remains stationary.

[5 marks]