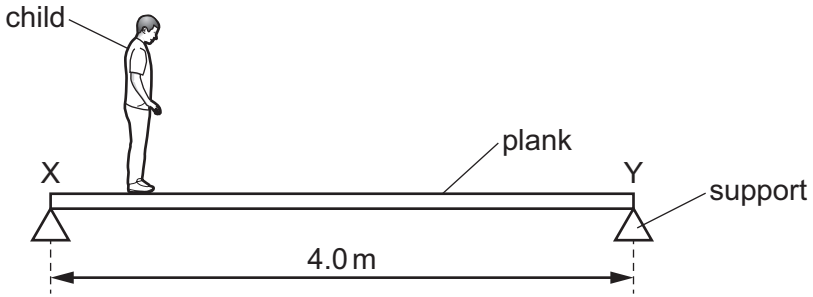
13 The diagram shows a uniform plank XY of length 4.0 m and weight 300 N.



The plank rests on fixed supports at its ends X and Y.

A child of weight 600 N stands in different positions on the plank.

The support at end X exerts a force *F* vertically upwards on the plank.

What is the magnitude of *F* when the child stands at X and when the child stands at Y?

	F / N when child is at X	*F* / N when child is at Y
A	600	0
B	600	150
C	750	0
D	750	150