

- 2 A massive star exerts a gravitational force F_{star} on a small distant planet. The planet exerts a gravitational force F_{planet} on the star.

Which row of the table is correct?

	Magnitude of forces	Direction of forces
<input type="checkbox"/> A	$F_{\text{planet}} < F_{\text{star}}$	opposite
<input type="checkbox"/> B	$F_{\text{planet}} < F_{\text{star}}$	the same
<input type="checkbox"/> C	$F_{\text{planet}} = F_{\text{star}}$	opposite
<input type="checkbox"/> D	$F_{\text{planet}} = F_{\text{star}}$	the same

(Total for Question 2 = 1 mark)