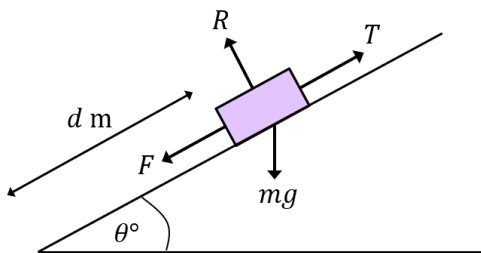


Fill in the Blanks

Work Done on an Inclined Plane



In each case, a particle of mass m is being pulled up a slope by a string parallel to the plane. The slope is at an incline of θ° and the particle moves up the slope at a constant speed, a distance of d m. T is the tension in the string, R is the reaction force and F is the frictional force, where applicable.

Mass m (kg)	Tension T (N)	Frictional Force F (N)	Coefficient of Friction μ	Distance d (m)	Angle of Incline θ	Work Done by Tension (J)	Work Done Against Friction (J)	Work Done Against Weight (J)
3		0	N/A	2	30°		0	
5			0.4	1.5	20°			
6			0.25		15°			45.7
10				1.8	25°		16.0	
8			0.2	2.5				98
	19.2		0.32		10°	15.3		5.45
0.5		0.80			25°		3.60	