30.		ruck accelerates uniformly along a straight, horizontal road. The mass of the truck is $\times10^4\mathrm{kg}$.
	(a)	The speed of the truck increases from rest to 12 m/s in 30 s.
		Calculate
		(i) the distance travelled by the truck during this time,
		distance =[2] (ii) the resultant force on the truck.
		resultant force =[4]
	(b)	To maintain a uniform acceleration, the forward force on the truck must change. Explain why.
		[2]
		[Total: 8]

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