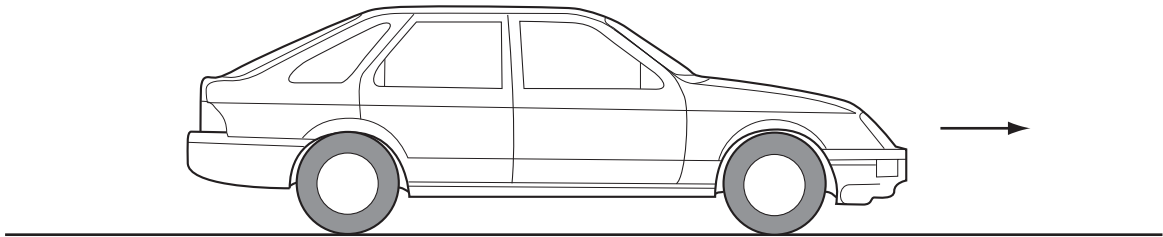
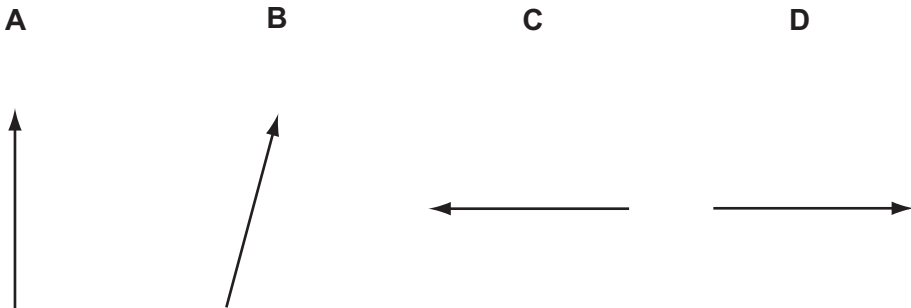


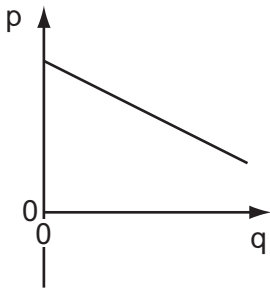
11 A car with front-wheel drive accelerates in the direction shown.



Which diagram best shows the direction of the total force exerted by the road on the front wheels?



12 The graph shows how a certain quantity  $p$  varies with another quantity  $q$  for a parachutist falling at terminal speed.



What are the quantities  $p$  and  $q$ , and what is represented by the magnitude of the gradient of the graph?

	quantity $p$	quantity $q$	magnitude of gradient
A	height	time	terminal speed
B	momentum	time	weight of parachutist
C	height	potential energy	mass of parachutist
D	velocity	time	acceleration of free fall