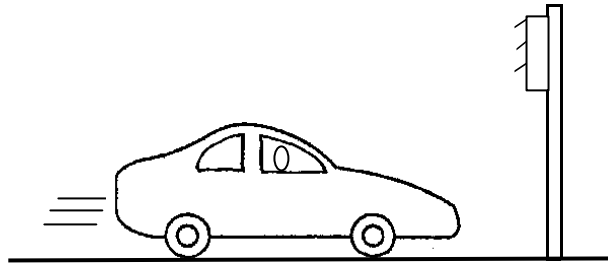


3

A car is approaching some traffic lights. The driver has put on the brakes, and the car is slowing down.



We can think of the forces acting on the car as:

- a **driving force** caused by the engine
- a **counter force** caused by air resistance and friction

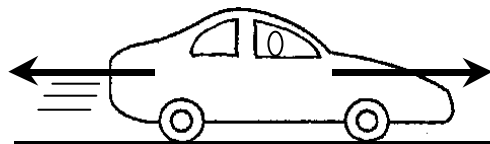
(a) **The car is slowing down.** Which of the following best describes the size of these two forces?

Tick **ONE** box (✓)

The driving force is **a lot bigger** than the counter force.



The driving force is **a little bit bigger** than the counter force.



The driving force is **exactly the same size** as the counter force.



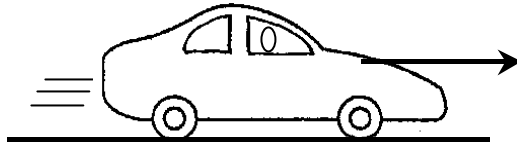
The driving force is **smaller than** the counter force.



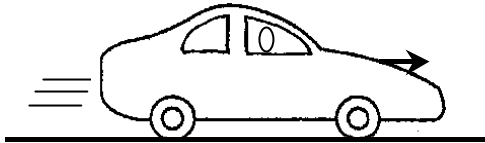
- (b) The **total force** acting on the car is the sum of the driving force and the counter force. What is the total force acting on the car while it is **slowing down**?

Tick **ONE** box (✓)

The total force is **quite a large force** forwards.



The total force is **a small force** forwards.



The total force is **zero**.



The total force is **a small force** backwards.

