

- 10** A car has mass  $m$ . A person needs to push the car with force  $F$  in order to give the car acceleration  $a$ . The person needs to push the car with force  $2F$  in order to give the car acceleration  $3a$ .

Which expression gives the constant resistive force opposing the motion of the car?

**A**  $ma$

**B**  $2ma$

**C**  $3ma$

**D**  $4ma$