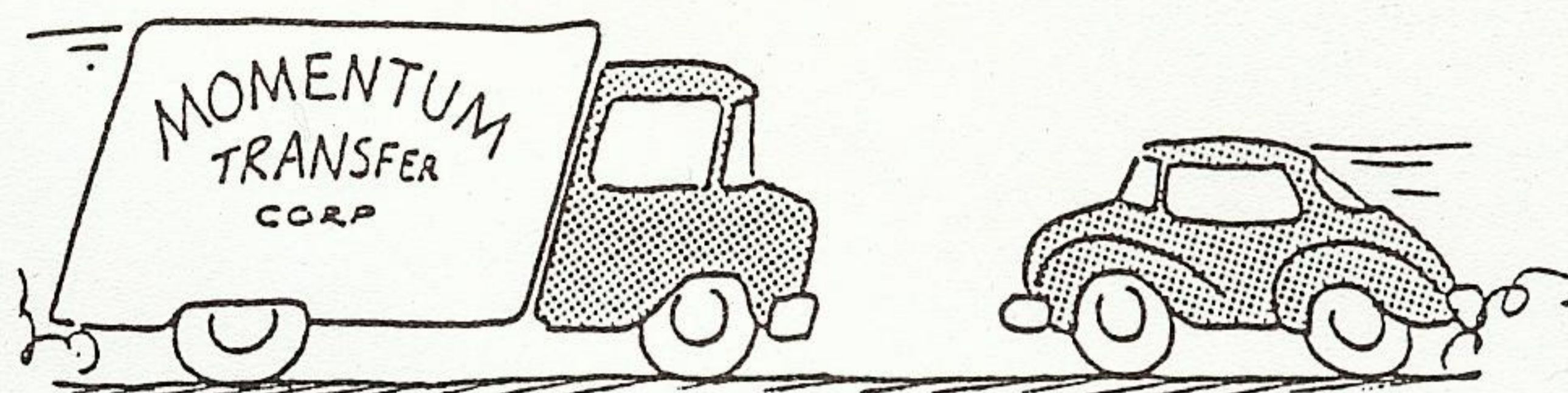
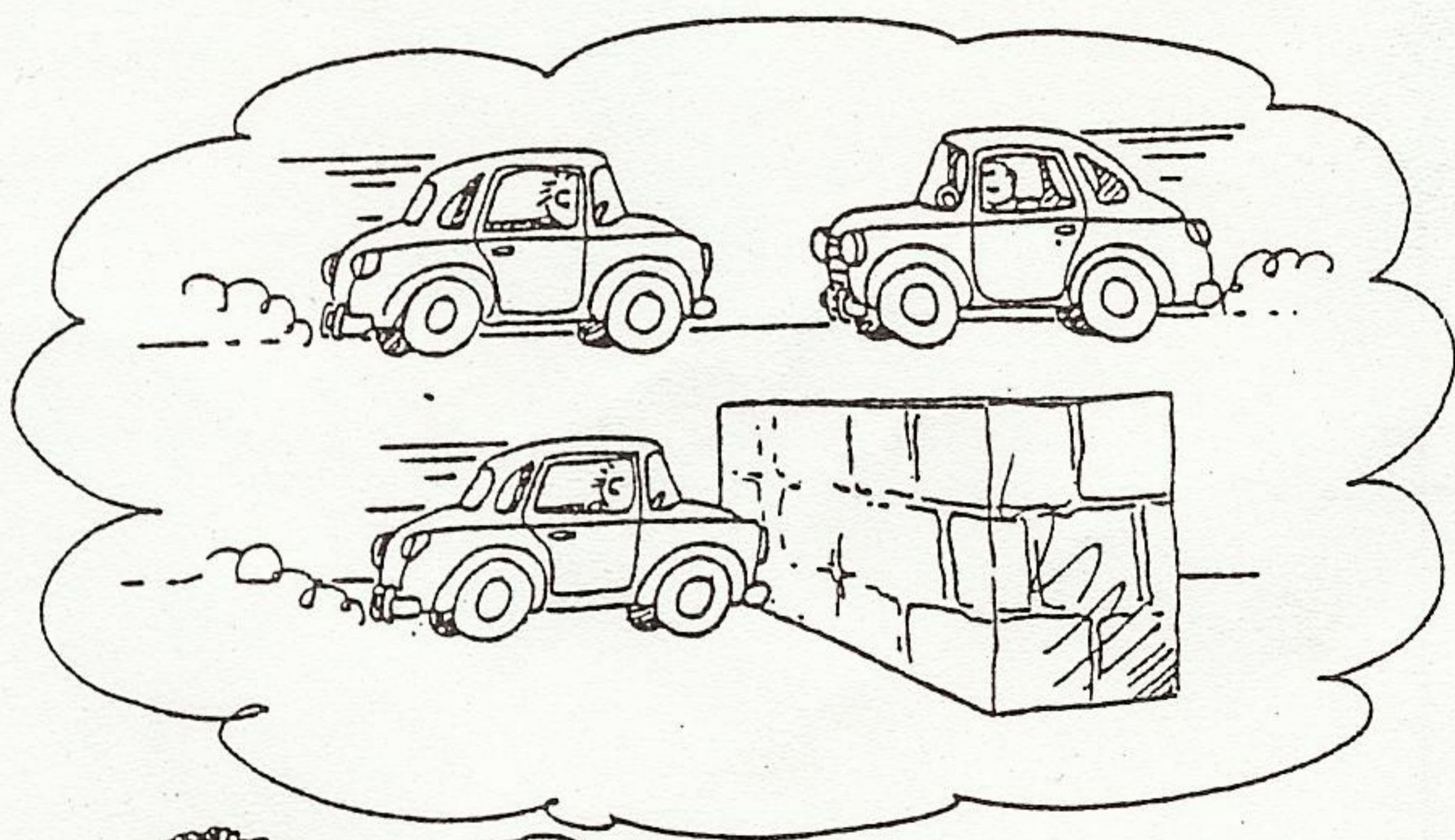


IF A MACK TRUCK AND A VOLKSWAGEN HAVE A HEAD-ON COLLISION, WHICH VEHICLE WILL EXPERIENCE THE GREATER IMPACT FORCE?



- a) THE MACK TRUCK
- b) THE VOLKSWAGEN
- c) BOTH THE SAME
- d) ... IT DEPENDS ON OTHER FACTORS

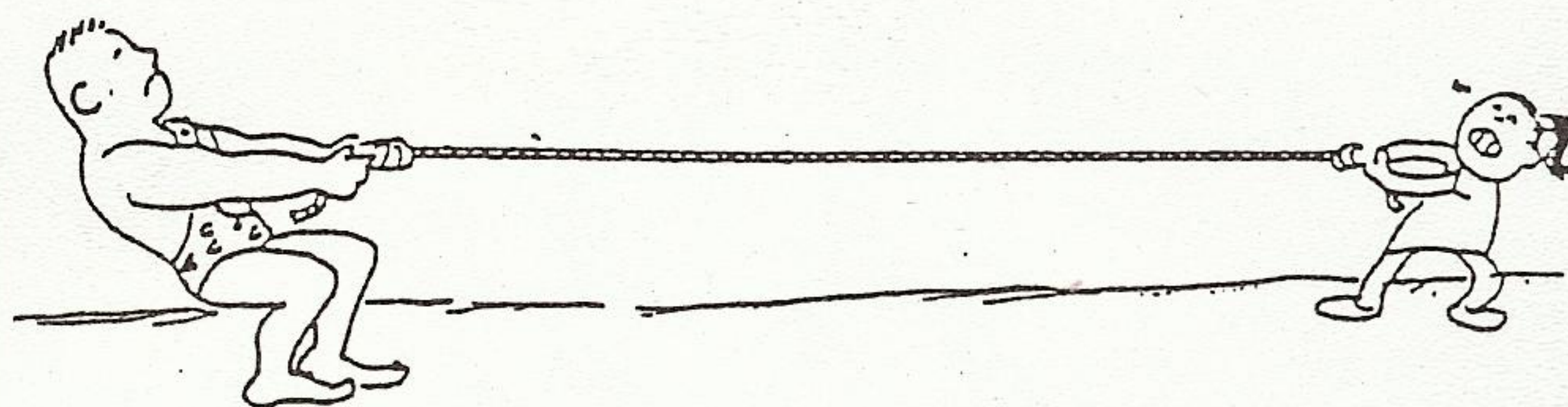
WHICH WOULD BE MORE DAMAGING; DRIVING INTO A MASSIVE CONCRETE WALL, OR DRIVING AT THE SAME SPEED INTO A HEAD-ON COLLISION WITH AN IDENTICAL CAR TRAVELING TOWARD YOU AT THE SAME SPEED?





Arnold Strongman and Suzie Small pull on opposite ends of a rope in a tug of war. The greatest force exerted on the rope is by

- a) Arnold
- b) Suzie
- c) ... both the same



Assume the rope's mass is negligible.

FOR EVERY FORCE THERE EXISTS AN EQUAL AND OPPOSITE FORCE. CONSIDER ACTION AND REACTION FORCES IN THE CASE OF A ROCK FALLING UNDER THE INFLUENCE OF GRAVITY. IF ACTION IS CONSIDERED TO BE THAT OF THE EARTH PULLING DOWN ON THE ROCK, CAN YOU CLEARLY IDENTIFY THE REACTION FORCE?

