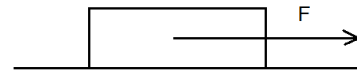


Question. A 1155 kg automobile is pulled by a horizontal tow line with a net force of 848 N. What is the acceleration of the auto?

Solution. Let us draw the picture of this process:



Rectangle on this picture is the auto, F is the net

force acting on it. According to Newton's second law $F = ma$. From this equation we can find the acceleration of the auto:

$$a = \frac{F}{m} \rightarrow a = \frac{848}{1155} = 0,73 \frac{m}{s^2}.$$

Answer: $a = 0,73 \frac{m}{s^2}$.