2. This problem also requires application of Newton's Second Law.

$$
\begin{aligned}
& F=m a \\
& F=(300 \mathrm{~kg})\left(4 \mathrm{~m} / \mathrm{s}^{2}\right) \\
& F=1200 \mathrm{~kg} \mathrm{~m} / \mathrm{s}^{2}=1200 \mathrm{~N}
\end{aligned}
$$

since $1 \mathrm{~N}=1 \mathrm{~kg} \mathrm{~m} / \mathrm{s}^{2}$.

