

- 12** A rocket has a weight of W and an initial acceleration of a as the rocket leaves the ground vertically. The acceleration of free fall is g .

Which expression gives the initial upward force exerted on the rocket due to the engine?

A $\frac{Wa}{g} + W$

B $\frac{Wa}{g}$

C $\frac{Wa}{g} - W$

D $Wa + W$