Force equations

Force = mass × acceleration $\boxed{F = ma}$

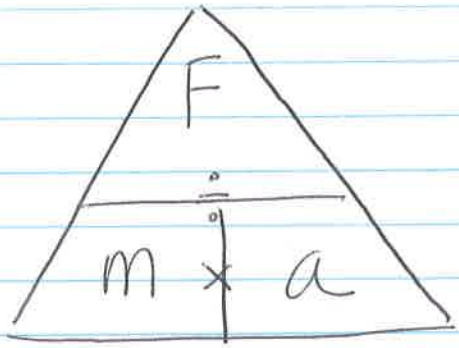
(SI units) [N] [kg] × $\left[\frac{m}{s^2}\right]$

↑ Newton

$F = ma$

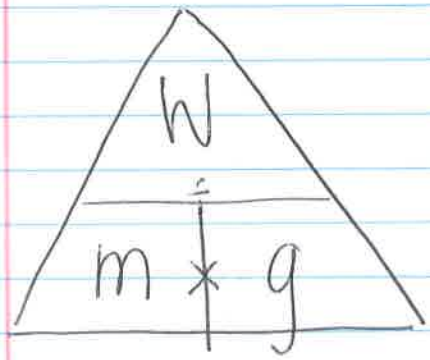
$m = \frac{F}{a}$

$a = \frac{F}{m}$



Weight is a force that is equal to mass × gravitational acceleration $\boxed{W = mg}$

(SI units) $N = kg\frac{m}{s^2}$



$W = mg$

$m = \frac{W}{g}$

$g = \frac{W}{m}$