

EQUATIONS

Solve the following equations for the quantity indicated.

(Example: $c = ab$, solve for a : $a = c/b$)

1. $s = vt$ Solve for v . s/t
2. $F = ma$ Solve for m . F/a
3. $v = s/t$ Solve for t . s/v
4. $s = (1/2)at^2$ Solve for t . $\sqrt{2s/a}$
5. $s = vt + (1/2)at^2$ Solve for v . $s/t - 1/2at$ or $\frac{s - 1/2at^2}{t}$
6. $v = \sqrt{2as}$ Solve for s . $v^2/2a$
7. $a = (v_f - v_o)/t$ Solve for t . $(v_f - v_o)/a$
8. $a = (v_f - v_o)/t$ Solve for v_f . $at + v_o$
9. $T = 2\pi\sqrt{l/g}$ Solve for g . $4\pi^2 l/T^2$
10. $1/f = 1/d_o + 1/d_i$ Solve for d_i . $\frac{d_o f}{d_o - f}$