

## Mathematics Toolkit: Manipulating Equations

Solve for each equation for the variable indicated. Use another sheet of paper if you don't have room on this sheet.

1.  $PV = nRT$  solve for  $n$

2.  $\frac{V_1}{T_1} = \frac{V_2}{T_2}$  solve for  $T_1$

3.  $F = \frac{9}{5}C + 32$  solve for  $C$

4.  $d = v_o t + \frac{1}{2}at^2$  solve for  $a$

$$1. \quad PV = nRT \quad \text{solve for } n$$

answer:

$$n = \frac{PV}{RT}$$

$$2. \quad \frac{V_1}{T_1} = \frac{V_2}{T_2} \quad \text{solve for } T_1$$

answer:

$$\frac{VT_2}{V_2} = T_1$$

$$3. \quad F = \frac{9}{5}C + 32 \quad \text{solve for } C$$

answer:

$$c = \frac{5}{9}(F - 32)$$

$$4. \quad d = v_o t + \frac{1}{2}at^2 \quad \text{solve for } a$$

answer:

$$a = \frac{2(d - v_o t)}{t^2}$$