Solving Equations Answer Key

Original Equation	Show Work	Final Equation
e.g. $\dfrac{AB}{C} = \dfrac{DE}{F}$	$\cancel{F} \cdot \dfrac{AB}{C} = \cancel{F} \cdot \dfrac{DE}{\cancel{F}}$ $\dfrac{FAB}{C} = DE$ $\dfrac{F\cancel{AB}}{\cancel{C}} \cdot \dfrac{\cancel{C}}{\cancel{AB}} = DE \cdot \dfrac{C}{AB}$	$F = \dfrac{CDE}{AB}$
$AB = C$	$\dfrac{\cancel{A}B}{\cancel{A}} = \dfrac{C}{A}$	$B = \dfrac{C}{A}$
$\dfrac{A}{B} = \dfrac{C}{D}$	$\dfrac{A}{B} \cdot D = \dfrac{C}{\cancel{D}} \cdot \cancel{D}$	$C = \dfrac{AD}{B}$
$\dfrac{A}{B} = \dfrac{C}{D}$	$\dfrac{A}{B} \cdot D = \dfrac{C}{\cancel{D}} \cdot \cancel{D}$ $\dfrac{\cancel{A}}{\cancel{B}} \cdot \dfrac{\cancel{B}}{\cancel{A}} \cdot D = C \cdot \dfrac{B}{A}$	$D = \dfrac{CB}{A}$
$\dfrac{AB}{C} = XYZ$	$\dfrac{AB}{\cancel{C}} \cdot \cancel{C} = XYZ \cdot C$ $\dfrac{AB}{XYZ} = \dfrac{\cancel{XYZ} \cdot C}{\cancel{XYZ}}$	$C = \dfrac{AB}{XYZ}$
$PV = nRT$	$\dfrac{PV}{nT} = \dfrac{nR\cancel{T}}{\cancel{nT}}$	$R = \dfrac{PV}{nT}$
$\dfrac{P_i V_i}{T_i} = \dfrac{P_f V_f}{T_f}$	$\dfrac{P_i V_i}{T_i} \cdot T_f = \dfrac{P_f V_f}{\cancel{T_f}} \cdot \cancel{T_f}$ $\dfrac{P_i V_i T_f}{T_i} \cdot \dfrac{1}{P_f} = \dfrac{\cancel{P_f} V_f}{\cancel{P_f}}$	$V_f = \dfrac{P_i V_i T_f}{T_i P_f}$
$\dfrac{P_i V_i}{T_i} = \dfrac{P_f V_f}{T_f}$	$\dfrac{P_i V_i}{T_i} \cdot T_f = \dfrac{P_f V_f}{\cancel{T_f}} \cdot \cancel{T_f}$ $\dfrac{\cancel{P_i V_i}}{\cancel{T_i}} \cdot \dfrac{\cancel{T_i}}{\cancel{P_i V_i}} \cdot T_f = P_f V_f \cdot \dfrac{T_i}{P_i V_i}$	$T_f = \dfrac{P_f V_f T_i}{P_i V_i}$