

CHAPTER 3	Solving Equations	BLM 3.0.3
ASSESSMENT		

On the worksheet below, practice rearranging the formulas in the first column to isolate the variable in the last column. Show all work in the middle column.

Original Equation	Show Work	Final Equation
e.g. $\frac{AB}{C} = \frac{DE}{F}$	<p>Multiply both sides by F to bring F into the numerator:</p> $F \cdot \frac{AB}{C} = \cancel{F} \cdot \frac{DE}{\cancel{F}}$ $\frac{FAB}{C} = DE$ <p>Divide both sides by <math>\frac{AB}{C}</math>, or multiply by its reciprocal, <math>\frac{C}{AB}</math>, to isolate F:</p> $\frac{\cancel{F} \cancel{AB}}{\cancel{C}} \cdot \frac{C}{\cancel{AB}} = DE \cdot \frac{C}{AB}$	$F = \frac{CDE}{AB}$
$AB = C$		$B =$
$\frac{A}{B} = \frac{C}{D}$		$C =$
$\frac{A}{B} = \frac{C}{D}$		$D =$
$\frac{AB}{C} = XYZ$		$C =$
$PV = nRT$		$R =$
$\frac{P_i V_i}{T_i} = \frac{P_f V_f}{T_f}$		$V_f =$
$\frac{P_i V_i}{T_i} = \frac{P_f V_f}{T_f}$		$T_f =$