Basic One-step Equations.				Date:		Nar	ne:				
Through your working, show how you are keeping the equation balanced as you solve for the variable.						http://www.learnersgrid.com Round to 1 d.p. if necessary.					
[1]	<u>p</u> 7.4	=	8	[2]	<u>d</u> 12.1	=	3	[3]	<i>C</i> 16.7	=	2
[4]	<u>f</u> 14.7	=	7	[5]	<u>y</u> 18.1	=	5	[6]	<u>p</u> 21.4	=	1
[7]	4	=	<u>p</u> 4.7	[8]	7	=	<u>p</u> 8.3	[9]	9	=	<u>f</u> 4.6
[10]	5	=	$\frac{d}{7.7}$	[11]	8	=	<u>m</u> 14.3	[12]	14	=	<u>h</u> 11.6
[13]	<i>m</i> 30.9	=	6	[14]	<u>y</u> 21.3	=	9	[15]	23	=	<u>d</u> 16.8

SOLUTIONS Basic One-step Equations.

Through your working, show how you are keeping the equation balanced as you solve for the variable.

http://www.learnersgrid.com **Round to 1 d.p. if necessary.**

$$\begin{bmatrix} 11 \\ \frac{p}{7.4} \\ \times 7.4 \\ \times 7.4 \\ \times 7.4 \\ = 8 \\ \times 7.4 \\ \hline p = 59.2 \\ \hline \end{bmatrix} \begin{bmatrix} 2 \\ \frac{d}{12.1} \\ \times 12.1 \\ \times 12.1 \\ \hline \end{bmatrix} = 3 \\ \times 12.1 \\ \hline \end{bmatrix} \begin{bmatrix} 3 \\ \frac{c}{16.7} \\ \times 16.7 \\ \times 16.7 \\ \times 16.7 \\ \hline \end{bmatrix} = 2 \\ \times 16.7 \\ \hline \end{bmatrix} \begin{bmatrix} c \\ = 33.4 \\ \hline \end{bmatrix} \begin{bmatrix} 4 \\ \frac{f}{14.7} \\ \times 14.7 \\ \hline \end{bmatrix} = 7 \\ \times 14.7 \\ \hline \end{bmatrix} \begin{bmatrix} 5 \\ \frac{y}{18.1} \\ \times 18.1 \\ \times 18.1 \\ \hline \end{bmatrix} = 5 \\ \times 18.1 \\ \hline \end{bmatrix} \begin{bmatrix} 6 \\ \frac{p}{21.4} \\ \times 21.4 \\ \hline \end{bmatrix} = 1 \\ \times 21.4 \\ \hline \end{bmatrix} \begin{bmatrix} 7 \\ 4 \\ \times 4.7 \\ = \frac{p}{4.7} \\ \times 4.7 \\ \hline \end{bmatrix} \begin{bmatrix} 8 \\ 7 \\ \times 8.3 \\ = \frac{p}{8.3} \\ \times 8.3 \\ \hline \end{bmatrix} \begin{bmatrix} 9 \\ 9 \\ \times 4.6 \\ = \frac{f}{4.6} \\ \times 4.6 \\ \hline \end{bmatrix} \begin{bmatrix} 9 \\ 4 \\ \times 4.7 \\ = \frac{p}{4.7} \\ \times 4.7 \\ \hline \end{bmatrix} \begin{bmatrix} 8 \\ 7 \\ \times 8.3 \\ = \frac{p}{8.3} \\ \hline \end{bmatrix} \begin{bmatrix} 9 \\ 8 \\ 8 \\ 8 \\ \hline \end{bmatrix} = 21.4 \\ \hline \end{bmatrix} \begin{bmatrix} 9 \\ 4 \\ 4 \\ 4 \\ 4 \\ - 5 \\ \hline \end{bmatrix} \begin{bmatrix} 9 \\ 4 \\ 4 \\ 4 \\ - 5 \\ \hline \end{bmatrix} \begin{bmatrix} 9 \\ 4 \\ 4 \\ - 5 \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 4 \\ 4 \\ - 5 \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 4 \\ 4 \\ - 5 \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 4 \\ 4 \\ - 5 \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 4 \\ - 5 \\ - 58.1 \\ \hline \end{bmatrix} = p \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 4 \\ - 5 \\ - 58.1 \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 7 \\ - 58.1 \\ \hline \end{bmatrix}$$

[10]
$$5_{\times 7.7} = \frac{d}{7.7}_{\times 7.7}$$
 [11] $8_{\times 14.3} = \frac{m}{14.3}_{\times 14.3}$ [12] $14_{\times 11.6} = \frac{h}{11.6}_{\times 11.6}$
 $38.5 = d$ $114.4 = m$ $162.4 = h$
 $d = 38.5$ $m = 114.4$ $h = 162.4$

$$\begin{bmatrix} 13 \end{bmatrix} \quad \frac{m}{30.9}_{\times 30.9} = 6 \quad \begin{bmatrix} 14 \end{bmatrix} \quad \frac{y}{21.3}_{\times 21.3} = 9 \quad \begin{bmatrix} 15 \end{bmatrix} \quad 23_{\times 16.8} = \frac{d}{16.8}_{\times 16.8} \\ \hline m = 185.4 \quad y = 191.7 \quad 391.44 = d \\ \hline d = 391.44 \end{bmatrix}$$