<b>Basic Two-step Equations with Unknown on</b> Through your working, show how you are keeping th for the variable. Round to 1 d.p. if necessary.		Name: http://www.learnersgrid.com	
<b>[1]</b> 9m + 10 = 55	[2] $\frac{g}{6} + 8 = 14$	<b>[3]</b> 58 = 9m + 22	
<b>[4]</b> 3m – 14 = 7	<b>[5]</b> 9m - 22 = 194	<b>[6]</b> 267 = 12m - 21	
[ <b>7</b> ] -4m + 11 = -29	$\frac{n}{5} - 9 = -1$	<b>[9]</b> -71 = -8m + 9	
<b>[10]</b> 10m - 21 = -61	<b>[11]</b> 10m - 19 = -149	<b>[12]</b> 135 = 9m - 9	

SOLU	TIONS Page 1 of 2	Basic Two-step Equations with Unknown on One Side		
Throug		ow you are keeping the equation balanced as you solve able. Round to 1 d.p. if necessary.	http://ww	w.learnersgrid.com
[1]	9m + 10 = 55 -10 -10 9m = 45 ÷9 ÷9 m = 5	$ \begin{bmatrix} 2 \\ \frac{g}{6} \\ + \\ 8 \\ \frac{g}{6} \\ + \\ 8 \\ \frac{g}{6} \\ -8 \\ -8 \\ -8 \\ -8 \\ -8 \\ -8 \\ -8 \\ -$	[3]	58 = 9m + 22 -22 - 22 36 = 9m ÷9 ÷9 4 = m m = 4
[4]	3m - 14 = 7 + 14 + 14 3m = 21 $\div 3 \div 3$ m = 7	[5] $9m - 22 = 194$ + 22 + 22 9m = 216 $\div 9 \div 9$ m = 24	[6]	267 = 12m - 21 + 21 + 21 + 21 $288 = 12m + 21 + 21 + 21 + 21 + 21 + 21 + 21$

**SOLUTIONS** Continued - page 2 of 2

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m = 16

[7]	-4m + 11 = -29 - 11 - 11 -4m = -40 $\div -4 \qquad \div -4$ <b>m = 10</b>	$ \begin{bmatrix} 8 \end{bmatrix}  \frac{n}{5} - 9 = -1 \\ \begin{array}{c} +9 & +9 \\ \hline n & = 8 \\ \hline 5 & \times 5 & \times 5 \\ \end{array} $	[9] $-71 = -8m + 9$ -9 -80 = -8m $\div -8 \div -8$ 10 = m	9 - 9
		<i>n</i> = 40	<i>m</i> = 10	
[10]	$10m - 21 = -61 + 21$ $10m = -40 + 21$ $\frac{10}{m} = -40$ $m = -4$	[11] $10m - 19 = -149$ + 19 + 19 10m = -130 $\div 10 \div 10$ m = -13	[12] $135 = 9m - 9$ +9 144 = 9m $\div 9 \div 9$ 16 = m	<b>)</b> + 9