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Math worksheet on <i>'Linear Equation Systems</i> -
Simple Equation Substitution To Equation (Level 3)'.
Part of a broader unit on 'Algebra Systems of
Equations - Intro'

into the first equation to form a single solvable equation	40d - 4d + 4 = 114	
		49d + 40d - 60 = 114
	49d - 10n = 114	c $49d - 4d + 5 = 40$
		d.a

4 Substitute the second equation into the first equation to form a single solvable equation
$$a = 70n - 7n + 5 = 63$$
 $a = 70n - 7n + 3 = 69$
 $a = 7n - 3$
 $a = 70n - 7n + 5 = 63$
 $a = 7n - 7n + 3 = 69$
 $a = 7n - 3$
 $a = 7n - 4 = 69$
 $a = 7n - 3$
 $a = 7n - 4 = 69$
 $a = 63n - 7n + 4 = 69$
 $a = 63n - 7n + 4 = 69$
 $a = 63n - 7n + 4 = 69$
 $a = 63n - 7n + 4 = 69$
 $a = 63n - 7n + 4 = 69$
 $a = 63n - 7n + 4 = 69$
 $a = 63n - 7n + 4 = 69$

6 Substitute the second equation into the first equation to form a single solvable equation
$$a 33b - 11b - 1 = 69$$
 $b 33b - 11b + 1 = 69$
 $a 33b - 11b - 1 = 69$
 $a 33b - 11b + 1 = 69$
 $a 33b - 11b - 1 = 69$
 $a 34b - 11b - 1 = 69$

Substitute the second equation into the first equation to form a single solvable equation	$ \begin{array}{c} a \\ 12b - 8b - 4 = 8 \end{array} $	b $12b + 8b - 4 = 8$
$egin{array}{l} 12b-2y=8 \ y=4b+2 \end{array}$		d $8b - 4b + 1 = 8$
b = ?	e $8b - 4b - 1 = 8$	

3 Substitute the second equation	47m + 36m -	10 — 81
into the first equation to form a single solvable equation	${\bf b}_{47m-9m+}$	
4 04	-	
47m - 4x = 84	_	
x = 9m - 10	$\mathbf{q}_{10m} - 9m + 1$	
m = ?	$e_{36m-9m+}$	
	f 36 m – 9 m – 3	2 = 84

5 Substitute the second equation into the first equation to form a	a $70r - 7r - 5 = 144$
single solvable equation	b $82r - 7r + 6 = 70$
82r - 10y = 144	82r + 70r - 60 = 144
y = 7r - 6	62r - 70r + 60 = 144
r=?	$\mathbf{e}_{60r-7r+6} = 144$
	\mathbf{f} 70 r – 7 r + 5 = 144

7 Substitute the second equation into the first equation to form a single solvable equation	a $12n-6n-4=26$
	b $12n + 6n - 4 = 26$
12n - 2x = 26	6n-3n-3=26
x = 3n + 2	d $12n-3n+4=6$
n = ?	e $6n-3n+3=26$
	f $4n-3n+2=26$