

Learn online: app.mobius.academy/math/units/algebra systems of equations intro/

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

2 Substitute the second equation into the first equation to form a single solvable equation
$$36n-3n-1=123$$
 $45n+36n-96=123$ c $45n-3n+2=36$

$$45n-12z=123$$
 c $45n-3n+2=36$ $z=3n-8$ $n=?$ e $36n-3n+1=123$ f $96n-3n+8=123$

4 Substitute the second equation into the first equation single solvable equation
$$a_{47m} - 9m + 3 = 36$$
 $b_{36m} - 9m + 2 = 84$
 $x = 9m - 10$
 $x = 9m - 10$
 $m = ?$
 $a_{47m} - 9m + 3 = 36$
 $a_{47m} - 9m + 2 = 84$
 $a_{47m} - 9m + 2 = 84$
 $a_{47m} - 9m - 2 = 84$

6 Substitute the second equation into the first equation to form a single solvable equation
$$a$$
 40 d – 4 d – 4 = 114 a a 49 a – 40 a – 4 a – 4 = 114 a a a 40 a – 4 a – 4 = 114 a a a – 4 a – 6 a a – 6 a a – 7 a a – 6 a a – 7 a a – 8 a – 9 a – 9 a – 114 a –

Substitute the second equation into the first equation to form a	a $63n - 7n + 4 = 69$
single solvable equation	b $63n - 7n - 4 = 69$
70n - 9c = 69	${}^{\mathbf{c}}_{70n} - 63n + 27 = 69$
c = 7n - 3	$\mathbf{c}_{70n} + 63n - 27 = 69$
n=?	e $70n - 7n + 5 = 63$
	f $27n-7n+3=69$

3 Substitute the second equation into the first equation to form a single solvable equation	a12b + 10b - 55 = 59
	$\mathbf{b} 55b - 2b + 11 = 59$
12b-5z=59	\mathbf{c} $10b - 2b + 0 = 59$
z = 2b - 11	10b - 2b - 0 = 59
b = ?	$^{\mathbf{e}}$ 12 b – 10 b + 55 = 59
	12b - 2b + 1 = 10

5 Substitute the second equation into the first equation single solvable equation
$$x=2$$
 and $x=2$ by $x=2$ condition $x=2$ co

	·
7 Substitute the second equation into the first equation to form a single solvable equation	a $6n-3n+3=26$
	b $6n-3n-3=26$
12n - 2x = 26	_
x=3n+2 $n=?$	d $12n + 6n - 4 = 26$ e $12n - 3n + 4 = 6$
7 <i>t</i> — :	f $12n-6n-4=26$