1 Substitute the second variable a



mobius	equation into the first equation to form a single solvable equation	12c - 7c = 100 $12c + 8c = 100$
Math worksheet on 'Linear Equation Systems - Simple Variable Substitution To Equation (Level 1)'. Part of a broader unit on 'Algebra Systems of Equations - Intro' Learn online: app.mobius.academy/math/units/algebra systems of equations intro/	$12c+m=100 \ m=8c \ c=?$	$egin{array}{ccccc} {f c} & {f d} \ 12c+8=100 & 12c+6c=100 \ {f e} & {f f} \ 8c+8=c & 12c+7c=100 \ \end{array}$
	2 0 1 27 4 21 1 1 1 1 1	

2 Substitute the second variable equation into the first equation to form a single solvable equation	a $11x + 4 = 105$	$\mathbf{b} \\ 11x + 4x = 105$
$egin{aligned} 11x+d = exttt{105} \ d = exttt{4}x \end{aligned}$	$\begin{array}{ c c c } \textbf{C} \\ 11x + 9x = 105 \end{array}$	\mathbf{d} $11x - 9x = 105$
x = ?	e $11x + 8x = 105$	$\begin{array}{ c c c }\hline \mathbf{f} \\ 10x + 4 = x \\ \end{array}$

3 Substitute the second variable equation into the first equation to form a single solvable equation	\mathbf{a} $12m + 3m = 63$	\mathbf{b} $10m + 3 = m$
$egin{aligned} 12m-d = 63 \ d = 3m \end{aligned}$	\mathbf{C} $12m - 9m = 63$	d $12m - 3m = 63$
m = ?	\mathbf{e} $12m + 9m = 63$	f $12m + 3 = 63$

4 Substitute the second variable equation into the first equation to form a single solvable equation	$oldsymbol{a}{6r+6r=40}$	b $6r - 7r = 40$
$egin{aligned} 6r+d=40\ d=2r \end{aligned}$	$egin{array}{c} \mathbf{c} \\ 8r+2=r \end{array}$	d $6r + 2 = 40$
r=?	6r + 7r = 40	

5 Substitute the second variable equation into the first equation to form a single solvable equation	a 6z + 12 = 36	b $6z - 4z = 36$
6z + b = 36 $b = 12z$		d $6z + 3z = 36$
z = ?	e $5z + 12 = z$	6z + 4z = 36

6 Substitute the second variable equation into the first equation to form a single solvable equation	a $12z - 6z = 92$	b $12z + 11 = 92$
$egin{array}{c} 12z+r=92\ r=11z \end{array}$	7z + 11 = z	d $12z + 6z = 92$
z = ?	e $12z + 11z = 92$	\mathbf{f} $12z + 5z = 92$

7 Substitute the second variable equation into the first equation	а	b
to form a single solvable equation	5d+6 =d	7d + 6 = 2
7.1		
7d - n = 2	C	d
C 1	7d - 6d = 2	7d + 6d = 2
n = 6d		
1 2	е	f
d=?	7d + 4d = 2	7d - 4d = 2