



Math worksheet on 'Linear Equation Systems - Simple Addition To Equation (Level 2)'. Part of a broader unit on 'Algebra Systems of Equations - Intro'

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1 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 12b + 6d &= 114 \\ -4b + 2d &= -10 \\ d &=? \end{aligned}$$

a	b
$12d = 84$	$12d = 114$
c	d
$84d = 12$	$12d = 12$
e	f
$84d = 10$	$-10d = 114$

2 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 5p + 6b &= 33 \\ 2p - 3b &= -3 \\ p &=? \end{aligned}$$

a	b
$27p = 6$	$9p = 33$
c	d
$-3p = 33$	$9p = 27$
e	f
$9p = 9$	$27p = 9$

3 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 6y + 8z &= 34 \\ -2y + 2z &= -2 \\ z &=? \end{aligned}$$

a	b
$14z = 14$	$14z = 34$
c	d
$14z = 28$	$-2z = 34$
e	f
$28z = 5$	$28z = 14$

4 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 6c + 10p &= 84 \\ -3c + 3p &= -18 \\ p &=? \end{aligned}$$

a	b
$-18p = 84$	$48p = 16$
c	d
$16p = 16$	$48p = 6$
e	f
$16p = 48$	$16p = 84$

5 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 2x + 12m &= 124 \\ 3x - 6m &= -30 \\ x &=? \end{aligned}$$

a	b
$64x = 11$	$-30x = 124$
c	d
$64x = 8$	$8x = 8$
e	f
$8x = 124$	$8x = 64$

6 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 4p + 4n &= 28 \\ -2p + 5n &= 0 \\ n &=? \end{aligned}$$

a	$28n = 5$
b	$14n = 28$
c	$0n = 28$
d	$4n + 0n - 14 = 28$
e	$28n = 14$
f	$14n = 14$

7 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$\begin{aligned} 10n + 2p &= 48 \\ -5n + 6p &= 39 \\ p &=? \end{aligned}$$

a	b
$14p = 126$	$14p = 14$
c	d
$39p = 48$	$126p = 12$
e	f
$126p = 14$	$14p = 48$