



Math worksheet on 'Linear Equation Systems - Simple Addition To Equation (Level 3)'. 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

$$\begin{aligned} 10z + 8d &= 130 \\ 4z + 4d &= 56 \\ z &=? \end{aligned}$$

a $18z = 12$	b $2z = 18$
c $2z = 130$	d $18z = 2$
e $2z = 2$	f $56z = 130$

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

$$\begin{aligned} 11r + 6m &= 153 \\ 2r + 3m &= 45 \\ r &=? \end{aligned}$$

a $7r = 153$	b $7r = 63$
c $63r = 7$	d $63r = 12$
e $7r = 7$	f $45r = 153$

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

$$\begin{aligned} 12r + 9p &= 69 \\ 9r + 3p &= 33 \\ r &=? \end{aligned}$$

a $-15r = -30$	b $-30r = -15$
c $-15r = -15$	d $33r = 69$
e $-30r = 5$	f $-15r = 69$

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

$$\begin{aligned} 12b + 6m &= 138 \\ 6b + 2m &= 60 \\ b &=? \end{aligned}$$

a $-6b = 138$	b $-6b = -42$
c $60b = 138$	d $-42b = -6$
e $-6b = -6$	f $-42b = 10$

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

$$\begin{aligned} 7m + 6r &= 50 \\ 4m + 3r &= 26 \\ m &=? \end{aligned}$$

a $-1m = -2$	b $26m = 50$
c $-2m = -1$	d $-1m = -1$
e $-2m = 5$	f $-1m = 50$

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

$$\begin{aligned} 8r + 4m &= 44 \\ 10r + 2m &= 46 \\ r &=? \end{aligned}$$

a $-48r = 7$	b $-48r = -12$
c $-12r = 44$	d $-12r = -48$
e $46r = 44$	f $-12r = -12$

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

$$\begin{aligned} 9b + 12d &= 147 \\ 7b + 6d &= 91 \\ b &=? \end{aligned}$$

a $91b = 147$	b $-5b = 147$
c $-35b = 10$	d $-5b = -5$
e $-5b = -35$	f $-35b = -5$