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

Learn online: app.mobius.academy/math/units/algebra_systems_of_equations_intro/

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

$$5c + 6n = 69$$
$$10c + 3n = 102$$
$$c = ?$$

a $-15c = -15$
b $102c = 69$
c $-15c = -135$
d $-135c = 12$
e $-15c = 69$
f $-135c = -15$

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

$$12r + 8d = 88$$
$$3r + 2d = 22$$
$$r = ?$$

a $12r + 22r - 0 = 88$
b $0r = 0$
c $0r = 88$
d $22r - 8r + 5 = 88$
e $0r = 9$
f $22r = 88$

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

$$12c + 6b = 72$$
$$6c + 2b = 30$$
$$c = ?$$

a $30c = 72$
b $-18c = 6$
c $-6c = 72$
d $-6c = -6$
e $-6c = -18$
f $-18c = -6$

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

$$11z + 10m = 52$$
$$12z + 5m = 39$$
$$z = ?$$

a $-13z = -26$
b $-13z = -13$
c $-13z = 52$
d $39z = 52$
e $-26z = 5$
f $-26z = -13$

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

$$12z + 12b = 96$$
$$3z + 4b = 26$$
$$z = ?$$

a $18z = 3$
b $3z = 3$
c $26z = 96$
d $18z = 9$
e $3z = 96$
f $3z = 18$

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

$$8p + 12m = 56$$
$$5p + 6m = 32$$
$$p = ?$$

a $-2p = -2$
b $-8p = -2$
c $-2p = 56$
d $32p = 56$
e $-2p = -8$
f $-8p = 7$

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

$$6d + 4z = 56$$
$$2d + 2z = 20$$
$$d = ?$$

a $2d = 56$
b $20d = 56$
c $2d = 2$
d $2d = 16$
e $16d = 2$
f $16d = 11$