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Math worksheet on *'Linear Equation Systems - Simple Addition To Equation (Level 2)'*. 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

$$6c + 2y = 16$$
$$-3c + 3y = 0$$
$$y = ?$$

a $0y = 16$

b $2y + 0y - 8 = 16$

c $8y = 8$

d $16y = 5$

e $16y = 8$

f $8y = 16$

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

$$12n + 2p = 86$$
$$-6n + 4p = -8$$
$$p = ?$$

a $10p = 86$

b $70p = 10$

c $10p = 70$

d $10p = 10$

e $-8p = 86$

f $70p = 10$

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

$$2x + 12b = 96$$
$$3x - 4b = -10$$
$$x = ?$$

a $11x = 11$

b $66x = 9$

c $-10x = 96$

d $66x = 11$

e $11x = 66$

f $11x = 96$

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

$$2x + 12m = 124$$
$$3x - 6m = -30$$
$$x = ?$$

a $8x = 124$

b $8x = 64$

c $-30x = 124$

d $8x = 8$

e $64x = 8$

f $64x = 11$

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

$$6y + 8z = 34$$
$$-2y + 2z = -2$$
$$z = ?$$

a $14z = 34$

b $14z = 14$

c $14z = 28$

d $-2z = 34$

e $28z = 14$

f $28z = 5$

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

$$2y + 6n = 52$$
$$4y - 3n = -16$$
$$y = ?$$

a $20y = 10$

b $-16y = 52$

c $20y = 5$

d $10y = 52$

e $10y = 20$

f $10y = 10$

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

$$9y + 4b = 87$$
$$3y - 2b = 9$$
$$y = ?$$

a $105y = 10$

b $9y = 87$

c $105y = 15$

d $15y = 15$

e $15y = 105$

f $15y = 87$