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

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1 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$4x + 12d = 68$$
$$5x + 3d = 25$$
$$x = ?$$

a	b
$x = -32$	$x = 1$
c	**d**
$x = 5$	$x = 2$
e	**f**
$x = -16$	$x = 25$

2 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$11d + 8r = 49$$
$$3d + 2r = 13$$
$$d = ?$$

a	b	c
$d = 6$	$d = -3$	$d = -1$
d	**e**	**f**
$d = 2$	$d = 13$	$d = 3$

3 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$9d + 6y = 36$$
$$5d + 3y = 19$$
$$d = ?$$

a	b	c
$d = 1$	$d = 2$	$d = -2$
d	**e**	**f**
$d = -1$	$d = 19$	$d = 5$

4 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$8d + 12r = 168$$
$$3d + 2r = 43$$
$$d = ?$$

a	b	c
$d = -90$	$d = 43$	$d = 9$
d	**e**	**f**
$d = 12$	$d = 8$	$d = -10$

5 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$9x + 10p = 124$$
$$5x + 2p = 44$$
$$x = ?$$

a	b
$x = 6$	$x = 5$
c	**d**
$x = -96$	$x = -16$
e	**f**
$x = 44$	$x = 9$

6 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$9c + 12x = 108$$
$$5c + 4x = 44$$
$$c = ?$$

a	b	c
$c = 44$	$c = 4$	$c = -24$
d	**e**	**f**
$c = 3$	$c = 7$	$c = -6$

7 Solve for the variable by adding or subtracting multiples of the second equation to the first

$$9y + 12x = 177$$
$$3y + 3x = 51$$
$$y = ?$$

a	b	c
$y = -3$	$y = 8$	$y = 9$
d	**e**	**f**
$y = -27$	$y = 51$	$y = 12$