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

$$8z + 5m = 81$$
$$-4z + 2m = -18$$
$$m = ?$$

a	b
$m = 8$	$m = 9$

c	d
$m = 4$	$m = 45$

e	f
$m = -18$	$m = 5$

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

$$4y + 10b = 114$$
$$2y - 5b = -33$$
$$y = ?$$

a	b	c
$y = 48$	$y = 6$	$y = 9$
d	**e**	**f**
$y = -33$	$y = 5$	$y = 8$

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

$$6c + 3r = 66$$
$$-2c + 4r = 18$$
$$r = ?$$

a	b	c
$r = 8$	$r = 18$	$r = 11$
d	**e**	**f**
$r = 120$	$r = 15$	$r = 7$

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

$$6r + 2m = 32$$
$$-2r + 4m = 22$$
$$m = ?$$

a	b	c
$m = 14$	$m = 98$	$m = 22$
d	**e**	**f**
$m = 7$	$m = 6$	$m = 10$

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

$$4n + 4p = 32$$
$$-2n + 2p = -4$$
$$p = ?$$

a	b	c
$p = 3$	$p = 8$	$p = -4$
d	**e**	**f**
$p = 6$	$p = 2$	$p = 24$

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

$$12m + 12x = 108$$
$$2m - 6x = -38$$
$$m = ?$$

a	b
$m = 16$	$m = 2$
c	**d**
$m = 32$	$m = 1$
e	**f**
$m = 5$	$m = -38$

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

$$10x + 10y = 140$$
$$2x - 5y = -7$$
$$x = ?$$

a	b	c
$x = 12$	$x = -7$	$x = 8$
d	**e**	**f**
$x = 9$	$x = 126$	$x = 14$