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Math worksheet on *'Linear Equation Systems - Simple Addition To Equation (Level 1)'*. 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

$$9c + 8z = 77$$
$$-9c + 10z = -5$$
$$z = ?$$

a	b
$72z = 7$	$18z = 77$

c	d
$18z = 18$	$18z = 72$

e	f
$-5z = 77$	$72z = 18$

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

$$8y + 5m = 117$$
$$-8y + 9m = 9$$
$$m = ?$$

a	b
$14m = 126$	$126m = 14$

c	d
$14m = 117$	$126m = 12$

e	f
$14m = 14$	$9m = 117$

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

$$6n + 8m = 28$$
$$-6n + 5m = -2$$
$$m = ?$$

a	b
$13m = 13$	$13m = 26$

c	d
$26m = 5$	$26m = 13$

e	f
$13m = 28$	$-2m = 28$

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

$$7c + 2n = 20$$
$$6c - 2n = 6$$
$$c = ?$$

a	b
$13c = 26$	$13c = 20$

c	d
$13c = 13$	$26c = 13$

e	f
$6c = 20$	$26c = 5$

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

$$9z + 4b = 62$$
$$7z - 4b = 34$$
$$z = ?$$

a	b
$16z = 16$	$16z = 62$

c	d
$34z = 62$	$96z = 9$

e	f
$16z = 96$	$96z = 16$

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

$$9r + 10n = 74$$
$$-9r + 4n = -46$$
$$n = ?$$

a	b
$-46n = 74$	$14n = 74$

c	d
$28n = 5$	$28n = 14$

e	f
$14n = 28$	$14n = 14$

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

$$7y + 2p = 55$$
$$-7y + 5p = -34$$
$$p = ?$$

a	b
$7p = 21$	$7p = 55$

c	d
$21p = 6$	$21p = 7$

e	f
$-34p = 55$	$7p = 7$