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

$$8x + 8p = 72$$
$$3x + 2p = 23$$
$$x = ?$$

a $x = 4$ **b** $x = -4$ **c** $x = 5$ **d** $x = -20$ **e** $x = 8$ **f** $x = 23$

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

$$6z + 6x = 24$$
$$7z + 2x = 18$$
$$z = ?$$

a $z = -30$ **b** $z = 5$ **c** $z = -15$ **d** $z = 18$ **e** $z = 2$ **f** $z = 1$

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

$$9y + 6c = 54$$
$$6y + 3c = 33$$
$$y = ?$$

a $y = -12$ **b** $y = -3$ **c** $y = 3$ **d** $y = 33$ **e** $y = 4$ **f** $y = 7$

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

$$10d + 10n = 110$$
$$4d + 2n = 26$$
$$d = ?$$

a $d = 2$ **b** $d = 26$ **c** $d = -10$ **d** $d = 5$ **e** $d = -20$ **f** $d = 1$

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

$$9n + 6c = 66$$
$$7n + 2c = 46$$
$$n = ?$$

a $n = 9$ **b** $n = 46$ **c** $n = 6$ **d** $n = 5$ **e** $n = -72$ **f** $n = -12$

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

$$7b + 12c = 100$$
$$6b + 4c = 48$$
$$b = ?$$

a $b = -44$ **b** $b = 48$ **c** $b = -11$ **d** $b = 7$ **e** $b = 3$ **f** $b = 4$

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

$$7x + 6b = 40$$
$$3x + 2b = 16$$
$$x = ?$$

a $x = 4$ **b** $x = 3$ **c** $x = 16$ **d** $x = -2$ **e** $x = 7$ **f** $x = -8$