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

$$2r + 10c = 90$$
$$5r - 5c = -15$$
$$r = ?$$

a $r = 60$ **b** $r = 12$ **c** $r = 5$

d $r = -15$ **e** $r = 4$ **f** $r = 8$

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

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

a $m = 4$ **b** $m = 9$

c $m = -18$ **d** $m = 45$

e $m = 8$ **f** $m = 5$

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

$$4d + 10m = 36$$
$$5d - 5m = 10$$
$$d = ?$$

a $d = 10$ **b** $d = 7$ **c** $d = 56$

d $d = 14$ **e** $d = 3$ **f** $d = 4$

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

$$4z + 8n = 28$$
$$5z - 4n = 7$$
$$z = ?$$

a $z = 14$ **b** $z = 7$ **c** $z = 6$

d $z = 42$ **e** $z = 2$ **f** $z = 3$

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

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

a $r = 7$ **b** $r = 120$ **c** $r = 8$

d $r = 18$ **e** $r = 15$ **f** $r = 11$

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

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

a $x = 126$ **b** $x = 8$ **c** $x = 9$

d $x = 12$ **e** $x = 14$ **f** $x = -7$

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

$$6r + 4d = 20$$
$$-3r + 3d = 0$$
$$d = ?$$

a $d = 0$ **b** $d = 1$ **c** $d = 5$

d $d = 10$ **e** $d = 2$ **f** $d = 20$