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Math worksheet on *'Linear Equation Systems - Simple Equation Substitution To Equation (Level 2)'*. Part of a broader unit on *'Algebra Systems of Equations - Intro'*

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1 Substitute the second equation into the first equation to form a single solvable equation

$$5b + 3n = 75$$
$$n = 9b - 7$$
$$b = ?$$

a. $21b - 9b + 7 = 75$
b. $5b - 9b + 2 = 27$
c. $27b - 9b - 1 = 75$
d. $5b + 27b - 21 = 75$
e. $21b + 9b + 7 = 75$
f. $27b + 9b - 1 = 75$

2 Substitute the second equation into the first equation to form a single solvable equation

$$11p + 5c = 134$$
$$c = 2p + 10$$
$$p = ?$$

a. $10p - 2p - 2 = 134$
b. $11p + 2p + 3 = 10$
c. $50p + 2p + 10 = 134$
d. $11p + 10p - 50 = 134$
e. $10p + 2p + 2 = 134$
f. $11p + 10p + 50 = 134$

3 Substitute the second equation into the first equation to form a single solvable equation

$$4n + 5c = 117$$
$$c = 8n - 3$$
$$n = ?$$

a. $15n + 8n + 3 = 117$
b. $15n - 8n + 3 = 117$
c. $4n - 8n + 2 = 40$
d. $4n + 40n - 15 = 117$
e. $40n + 8n - 1 = 117$
f. $40n - 8n - 1 = 117$

4 Substitute the second equation into the first equation to form a single solvable equation

$$5x + 2c = 30$$
$$c = 11x - 12$$
$$x = ?$$

a. $5x + 22x - 24 = 30$
b. $5x - 11x + 1 = 22$
c. $22x - 11x - 0 = 30$
d. $24x + 11x + 12 = 30$
e. $22x + 11x - 0 = 30$
f. $24x - 11x + 12 = 30$

5 Substitute the second equation into the first equation to form a single solvable equation

$$10d + 8x = 102$$
$$x = 6d - 9$$
$$d = ?$$

a. $10d - 6d + 2 = 48$
b. $10d + 48d - 72 = 102$
c. $48d - 6d - 1 = 102$
d. $48d + 6d - 1 = 102$
e. $72d - 6d + 9 = 102$
f. $72d + 6d + 9 = 102$

6 Substitute the second equation into the first equation to form a single solvable equation

$$5p + 6m = 68$$
$$m = 3p - 4$$
$$p = ?$$

a. $24p - 3p + 4 = 68$
b. $18p + 3p - 2 = 68$
c. $24p + 3p + 4 = 68$
d. $5p - 3p + 3 = 18$
e. $5p + 18p - 24 = 68$
f. $18p - 3p - 2 = 68$

7 Substitute the second equation into the first equation to form a single solvable equation

$$3c + 3x = 111$$
$$x = 8c + 10$$
$$c = ?$$

a. $24c - 8c - 1 = 111$
b. $24c + 8c + 1 = 111$
c. $3c + 24c + 30 = 111$
d. $3c + 8c + 2 = 24$
e. $3c + 24c - 30 = 111$
f. $30c + 8c + 10 = 111$