Name

Linear Equation Systems - Simple Number Substitution To Equation

1 Substitute the given number for the variable to form a single solvable equation

$$2z + 12r = 120$$
$$r = 9$$
$$z = ?$$

A $2z + 8 = 120$

B $2z + 108 = 120$

C $2z - 9 = 120$

D $2z + 9 = 120$

E $6z + 9 = z$

F $9z + 9 = z$

2 Substitute the given number for the variable to form a single solvable equation

$$8c - 2m = 22$$
$$m = 5$$
$$c = ?$$

A $8c + 10 = 22$

B $8c + 5 = 22$

C $8c + 6 = 22$

D $4c + 5 = c$

E $8c - 10 = 22$

F $7c + 5 = c$

3 Substitute the given number for the variable to form a single solvable equation

$$11y + 12n = 106$$
$$n = 7$$
$$y = ?$$

A $11y + 7 = 106$

B $11y - 5 = 106$

C $2y + 7 = y$

D $11y + 84 = 106$

E $11y + 4 = 106$

F $5y + 7 = y$

4 Substitute the given number for the variable to form a single solvable equation

$$12x - 5b = 41$$
$$b = 11$$
$$x = ?$$

A $12x + 10 = 41$

B $12x + 11 = 41$

C $12x - 55 = 41$

D $8x + 11 = x$

E $12x + 55 = 41$

F $11x + 11 = x$

5 Substitute the given number for the variable to form a single solvable equation

$$12r - 4d = 52$$
$$d = 2$$
$$r = ?$$

A $12r - 8 = 52$

B $12r + 8 = 52$

C $8r + 2 = r$

D $5r + 2 = r$

E $12r + 2 = 52$

F $12r + 7 = 52$

6 Substitute the given number for the variable to form a single solvable equation

$$12c - 11r = 7$$
$$r = 7$$
$$c = ?$$

A $12c + 77 = 7$

B $12c - 77 = 7$

C $7c + 7 = c$

D $10c + 7 = c$

E $12c + 7 = 7$

F $12c + 9 = 7$

7 Substitute the given number for the variable to form a single solvable equation

$$4p + 8d = 104$$
$$d = 9$$
$$p = ?$$

A $11p + 9 = p$

B $4p + 72 = 104$

C $4p + 10 = 104$

D $4p + 9 = 104$

E $8p + 9 = p$

F $4p - 11 = 104$

8 Substitute the given number for the variable to form a single solvable equation

$$3c + 6d = 81$$
$$d = 11$$
$$c = ?$$

A $3c + 11 = 81$

B $3c + 7 = 81$

C $8c + 11 = c$

D $3c - 8 = 81$

E $3c + 66 = 81$

F $5c + 11 = c$