



Math worksheet on 'Linear Equation Systems - Simple Variable Substitution (Level 1)'. Part of a broader unit on 'Algebra Systems of Equations - Intro'

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**1** Solve for the variable by substituting the second equation into the first

$$12p - c = 24$$

$$c = 6p$$

$$p = ?$$

a	b	c
$p = 6$	$p = 3$	$p = 4$

d	e	f
$p = 2$	$p = 7$	$p = 6$

**2** Solve for the variable by substituting the second equation into the first

$$9c + p = 126$$

$$p = 9c$$

$$c = ?$$

a	b	c
$c = 8$	$c = 6$	$c = 10$

d	e	f
$c = 5$	$c = 7$	$c = 9$

**3** Solve for the variable by substituting the second equation into the first

$$8m - d = 8$$

$$d = 6m$$

$$m = ?$$

a	b	c
$m = 7$	$m = 3$	$m = 4$

d	e	f
$m = 6$	$m = 6$	$m = 2$

**4** Solve for the variable by substituting the second equation into the first

$$12c + d = 84$$

$$d = 2c$$

$$c = ?$$

a	b	c
$c = 9$	$c = 5$	$c = 8$

d	e	f
$c = 7$	$c = 4$	$c = 6$

**5** Solve for the variable by substituting the second equation into the first

$$12d + p = 69$$

$$p = 11d$$

$$d = ?$$

a	b	c
$d = 2$	$d = 6$	$d = 4$

d	e	f
$d = 3$	$d = 5$	$d = 1$

**6** Solve for the variable by substituting the second equation into the first

$$9n - m = 9$$

$$m = 6n$$

$$n = ?$$

a	b	c
$n = 6$	$n = 5$	$n = 3$

d	e	f
$n = 2$	$n = 6$	$n = 1$

**7** Solve for the variable by substituting the second equation into the first

$$10y - d = 42$$

$$d = 3y$$

$$y = ?$$

a	b	c
$y = 6$	$y = 4$	$y = 8$

d	e	f
$y = 9$	$y = 3$	$y = 5$