Math worksheet on *'Linear Equation Systems - Simple Variable Substitution (Level 2)'*. 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

$$10r + 8p = 148$$
$$p = 8r$$
$$r = ?$$

a	b	c
$r = 2$	$r = 4$	$r = 0$
d	**e**	**f**
$r = 64$	$r = 1$	$r = 5$

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

$$8m + 3n = 98$$
$$n = 2m$$
$$m = ?$$

a	b	c
$m = 10$	$m = 9$	$m = 6$
d	**e**	**f**
$m = 7$	$m = 5$	$m = 6$

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

$$10r + 2b = 130$$
$$b = 8r$$
$$r = ?$$

a	b	c
$r = 4$	$r = 7$	$r = 5$
d	**e**	**f**
$r = 8$	$r = 3$	$r = 16$

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

$$5b + 7p = 52$$
$$p = 3b$$
$$b = ?$$

a	b	c
$b = 4$	$b = 21$	$b = 2$
d	**e**	**f**
$b = 5$	$b = 1$	$b = 0$

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

$$12b + 5y = 135$$
$$y = 3b$$
$$b = ?$$

a	b	c
$b = 7$	$b = 15$	$b = 3$
d	**e**	**f**
$b = 5$	$b = 4$	$b = 8$

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

$$9n + 10c = 116$$
$$c = 2n$$
$$n = ?$$

a	b	c
$n = 3$	$n = 6$	$n = 20$
d	**e**	**f**
$n = 7$	$n = 2$	$n = 4$

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

$$4n + 3c = 74$$
$$c = 11n$$
$$n = ?$$

a	b	c
$n = 5$	$n = 0$	$n = 2$
d	**e**	**f**
$n = 4$	$n = 1$	$n = 33$