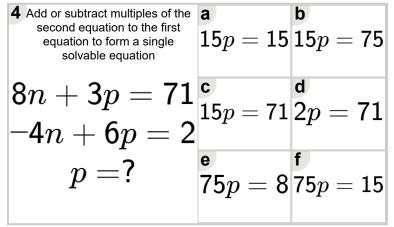# mobius

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

Learn online: app.mobius.academy/math/units/algebra_systems_of_equations_intro/

---

1 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$4p + 4n = 28$$
$$-2p + 5n = 0$$
$$n = ?$$

a	$28n = 14$
b	$0n = 28$
c	$14n = 28$
d	$4n + 0n - 14 = 28$
e	$28n = 5$
f	$14n = 14$

---

2 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$8r + 3d = 55$$
$$-4r + 2d = -10$$
$$d = ?$$

a	b
$7d = 35$	$7d = 55$
c	**d**
$-10d = 55$	$7d = 7$
e	**f**
$35d = 7$	$35d = 8$

---

3 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$12n + 2p = 86$$
$$-6n + 4p = -8$$
$$p = ?$$

a	b
$70p = 10$	$-8p = 86$
c	**d**
$70p = 10$	$10p = 70$
e	**f**
$10p = 10$	$10p = 86$

---

4 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$8n + 3p = 71$$
$$-4n + 6p = 2$$
$$p = ?$$

a	b
$15p = 15$	$15p = 75$
c	**d**
$15p = 71$	$2p = 71$
e	**f**
$75p = 8$	$75p = 15$

---

5 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$2x + 12m = 124$$
$$3x - 6m = -30$$
$$x = ?$$

a	b
$64x = 8$	$64x = 11$
c	**d**
$8x = 124$	$8x = 8$
e	**f**
$8x = 64$	$-30x = 124$

---

6 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$2y + 6n = 52$$
$$4y - 3n = -16$$
$$y = ?$$

a	b
$10y = 10$	$20y = 10$
c	**d**
$-16y = 52$	$10y = 52$
e	**f**
$20y = 5$	$10y = 20$

---

7 Add or subtract multiples of the second equation to the first equation to form a single solvable equation

$$6c + 2y = 16$$
$$-3c + 3y = 0$$
$$y = ?$$

a	$8y = 8$
b	$0y = 16$
c	$16y = 5$
d	$16y = 8$
e	$8y = 16$
f	$2y + 0y - 8 = 16$