



Use logical elimination

1

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

$$\begin{array}{r} 12z + 12b = 96 \\ 3z + 4b = 26 \\ \hline z = ? \end{array}$$

- | | |
|------------------------|------------------------|
| A $12z - 12z + 9 = 26$ | B $12z - 3z = 96$ |
| C $3z + 12 = z$ | D $26z = 96$ |
| E $3z = 18$ | F $12z + 26z - 3 = 96$ |

2

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 6r + 2c = 54 \\ -6r + 4c = -18 \\ \hline c = ? \end{array}$$

- | | |
|-----------|-------------|
| A $c = 5$ | B $c = -18$ |
| C $c = 6$ | D $c = 36$ |
| E $c = 9$ | |

3

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 10r + 10g = 60 \\ 7r - 10g = -9 \\ \hline r = ? \end{array}$$

- | | |
|------------|------------|
| A $r = 17$ | B $r = 2$ |
| C $r = 6$ | D $r = 51$ |
| E $r = 3$ | F $r = -9$ |

4

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 3c + 6m = 36 \\ 7c - 6m = 24 \\ \hline c = ? \end{array}$$

- | | |
|------------|------------|
| A $c = 10$ | B $c = 9$ |
| C $c = 6$ | D $c = 24$ |
| E $c = 5$ | F $c = 60$ |

5

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 7c + 10m = 132 \\ 7c - 4m = -6 \\ \hline m = ? \end{array}$$

- | | |
|-------------|------------|
| A $m = 126$ | B $m = -6$ |
| C $m = 14$ | D $m = 8$ |
| E $m = 9$ | F $m = 12$ |

6

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 10n + 4b = 78 \\ 2n - 1b = -18 \\ \hline n = ? \end{array}$$

- | | |
|-------------|------------|
| A $n = 12$ | B $n = 60$ |
| C $n = -18$ | D $n = 8$ |
| E $n = 4$ | F $n = 5$ |

7

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 4r + 5y = 88 \\ 3r - 5y = -60 \\ \hline r = ? \end{array}$$

- | | |
|-------------|-----------|
| A $r = -60$ | B $r = 3$ |
| C $r = 28$ | D $r = 4$ |
| E $r = 7$ | F $r = 7$ |

8

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 9d + 12b = 87 \\ 3d - 12b = -51 \\ \hline d = ? \end{array}$$

- | | |
|------------|-------------|
| A $d = 36$ | B $d = 3$ |
| C $d = 2$ | D $d = 6$ |
| E $d = 12$ | F $d = -51$ |



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9

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 2x + 9z = 68 \\ 7x - 9z = -5 \\ \hline x = ? \end{array}$$

A	$x = 9$	B	$x = 7$
C	$x = -5$	D	$x = 6$
E	$x = 10$	F	$x = 63$

10

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 6d - 9n = 87 \\ 7d - 9n = -35 \\ \hline d = ? \end{array}$$

A	$d = 52$	B	$d = 13$
C	$d = 3$	D	$d = -35$
E	$d = 4$	F	$d = 7$

11

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 5x + 6y = 63 \\ -5x + 3y = -36 \\ \hline y = ? \end{array}$$

A	$y = 3$	B	$y = 6$
C	$y = 9$	D	$y = 27$
E	$y = 2$	F	$y = -36$

12

Solve for the variable by adding or subtracting multiples of the second equation to the first

$$\begin{array}{r} 11x + 2p = 51 \\ -11x + 8p = -4 \\ \hline p = ? \end{array}$$

A	$p = 8$	B	$p = -4$
C	$p = 4$	D	$p = 5$
E	$p = 10$	F	$p = 50$