

Simultaneous equations: multiply both equations

Exit ticket ANSWERS Name _____

- 1 To eliminate x , multiply (1) by _____ and (2) by _____, then add or subtract?

(1) $3x + 2y = 9$

(2) $4x + 5y = 5$

4 and 3, then subtract

- 2 After eliminating y , $6x = 3$. Find x .

$x = \frac{1}{2}$

- 3 Solve the simultaneous equations.

(1) $3x + 2y = 16$

(2) $2x - 3y = 2$

$x = 4, y = 2$

The Maths Habit

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NEXT LESSON

1 To eliminate x , multiply (1) by _____ and (2) by _____, then add or subtract?

(1) $3x + 2y = 9$

(2) $4x + 5y = 5$

4 and 3, then subtract

TESTS

Choosing both multipliers, then the sign rule

LOOK FOR

4 and 3, then add lost the sign rule: $12x$ and $12x$, so subtract

5 and 2, then subtract those multipliers eliminate y , not x

FIX IT

To eliminate y , multiply (1) by what and (2) by what, then add or subtract? $2x + 3y = 13$ and $5x - 2y = 4$

2 and 3, then add

2 After eliminating y , $6x = 3$. Find x .

$x = \frac{1}{2}$

TESTS

Dividing the right way round

LOOK FOR

$x = 2$ did $6 \div 3$, the wrong way round

$x = -3$ took 6 away instead of dividing

FIX IT

After eliminating x , $10y = 5$. Find y .

$y = \frac{1}{2}$

3 Solve the simultaneous equations.

(1) $3x + 2y = 16$

(2) $2x - 3y = 2$

$x = 4, y = 2$

TESTS

Multiplying both, then adding

LOOK FOR

$x = 2, y = 4$ swapped x and y : check in both equations

FIX IT

Solve $2x + 3y = 12$ and $3x - 2y = 5$

$x = 3, y = 2$