

Simultaneous equations: multiply one equation

Exit ticket ANSWERS Name _____

- 1 Multiply $2x - 5y = 3$ by 3.

$$6x - 15y = 9$$

- 2 Solve the simultaneous equations.

(1) $3x + 2y = 10$

(2) $3x - 4y = 7$

$$x = 3, y = \frac{1}{2}$$

- 3 Solve the simultaneous equations.

(1) $5x + 2y = -1$

(2) $x - 4y = 13$

$$x = 1, y = -3$$

The Maths Habit

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NEXT LESSON

1 Multiply $2x - 5y = 3$ by 3.

$$6x - 15y = 9$$

TESTS Multiplying every term, sign included

LOOK FOR $6x - 15y = 3$ multiplied the left side only

$6x - 5y = 9$ multiplied some terms only

FIX IT

Multiply $4x - 3y = -2$ by 5.

$$20x - 15y = -10$$

2 Solve the simultaneous equations.

(1) $3x + 2y = 10$

(2) $3x - 4y = 7$

$$x = 3, y = \frac{1}{2}$$

TESTS Look first: no multiplying, then a half

LOOK FOR $x = 2, y = 2$ $6y = 3$ divided the wrong way round

FIX IT

Solve $3x + 6y = 9$ and $3x - 2y = 5$

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

3 Solve the simultaneous equations.

(1) $5x + 2y = -1$

(2) $x - 4y = 13$

$$x = 1, y = -3$$

TESTS Multiplying one equation, then adding

LOOK FOR $x = -3, y = 1$ swapped x and y : check in both equations

FIX IT

Solve $3x + y = 7$ and $2x - 3y = 12$

$$x = 3, y = -2$$