



New Maths GCSE: A19 - Simultaneous Equations: Step-by-step 2

Name:.....

Date:.....

Step 1

$$4x - 3y = 14$$

$$2x + 2y = -7$$

Which of the following is a correct next step to solve these simultaneous equations?

A $4x - 3y = 14$
 $4x + 4y = -7$

B $4x - 3y = 14$
 $4x + 2y = -7$

C $8x - 6y = 28$
 $4x + 4y = -14$

D $4x - 3y = 14$
 $4x + 4y = -14$

Correct Answer: A B C D

Explanation:

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Step 2

$$4x - 3y = 14$$

$$4x + 4y = -14$$

Which of the following is a correct next step to solve these simultaneous equations?

A $-7y = 28$

B $8x + y = 0$

C $y = -28$

D $7y = 28$

Correct Answer: A B C D

Explanation:

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Step 3

$$-7y = 28$$

Which of the following is a correct next step to solve these simultaneous equations?

A $y = 4$

B $y = -4$

C $y = 35$

D $y = 21$

Correct Answer: A B C D

Explanation:

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Step 4

$y = -4$

$4x - 3y = 14$

Which of the following is a correct next step to solve these simultaneous equations?

A $4x + 12 = 14$ B $-16 - 3y = 14$

C $4x - 7 = 14$ D $4x - 12 = 14$

Correct Answer: A B C D

Explanation:

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Step 5

$y = -4$

$4x + 12 = 14$

Which of the following is a correct next step to solve these simultaneous equations?

A $x = 8$ B $x = 104$

C $x = 8.5$ D $x = 0.5$

Correct Answer: A B C D

Explanation:

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Step 6

$x = 0.5$ $4x - 3y = 14$

$y = -4$ $2x + 2y = -7$

What is the best way to check our final answers are correct?

A $1 + 8 = 9$ B $2 - 12 = -10$

C $1 - 8 = -7$ D $2 + 12 = 14$

Correct Answer: A B C D

Explanation:

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