GCSE FOUNDATION · REVISION MAT 2

Simplifying expressions

1 Simplify

(a) $7x - 2y + x + 5y$

(b) $5a \times 2a$

2 Simplify

(a) $5x^2 - 2x + x^2 - 3x$

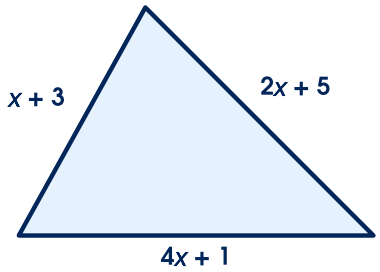
(b) $15ab \div 5b$

3 Bo says,

"$5x + 2y = 7xy$"

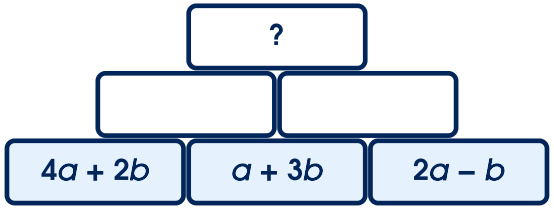
Explain why Bo is wrong.

4 Here is a triangle.



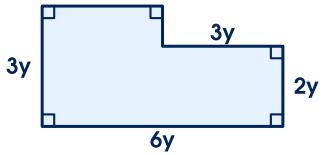
Show that the perimeter simplifies to $7x + 9$

5 Each brick is the sum of the two bricks below it.



Work out an expression for the top brick.
Give your answer in its simplest form.

6 The diagram shows an L-shape. All lengths are in cm.



Write an expression for the perimeter.
Give your answer in its simplest form.

Mr&Mrs MATHS

1 (a) $8x + 3y$

(b) $10a^2$

2 (a) $6x^2 - 5x$

(b) $3a$

3 x and y are unlike terms, so they cannot be collected.

$5x + 2y$ **cannot be simplified**

ANSWERS · REVISION MAT 2

Simplifying expressions

4 $(4x + 1) + (2x + 5) + (x + 3)$

$= 7x + 9$ ✓

5 Middle row: $5a + 5b$ and $3a + 2b$

Top: $8a + 7b$

6 Missing sides: 3y and y

Perimeter = $18y$

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