GCSE FOUNDATION · REVISION MAT 1

Simplifying expressions

1 Simplify

(a) $5a + 3b - 2a + b$

(b) $4x \times 3y$

2 Simplify

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

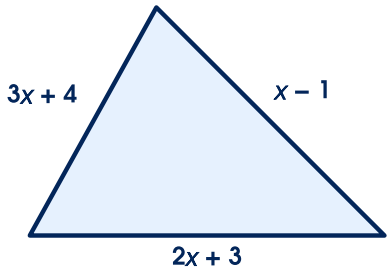
(b) $12xy \div 3x$

3 Ali says,

"$3a + 4b = 7ab$"

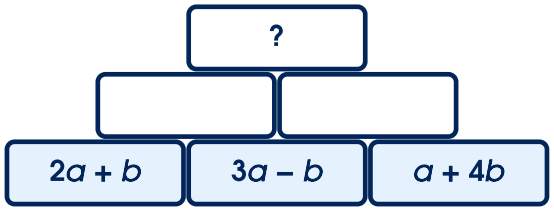
Explain why Ali is wrong.

4 Here is a triangle.



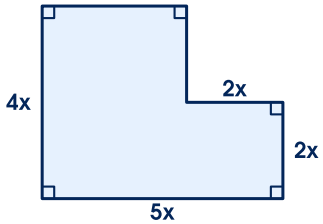
Show that the perimeter simplifies to $6x + 6$

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.

ANSWERS · REVISION MAT 1

Simplifying expressions

1 (a) $3a + 4b$

(b) $12xy$

2 (a) $a^2 + 4a$

(b) $4y$

3 a and b are unlike terms, so they cannot be collected.

$3a + 4b$ **cannot be simplified**

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

$= 6x + 6$ ✓

5 Middle row: $5a$ and $4a + 3b$

Top: $9a + 3b$

6 Missing sides: 3x and 2x

Perimeter = $18x$

Mr&Mrs MATHS