GCSE FOUNDATION · REVISION MAT 3

Simplifying expressions

1 Simplify

(a) $4m + 6n - m - 8n$

(b) $6p \times 3q$

2 Simplify

(a) $3y^2 + 7y - 4y^2 + y$

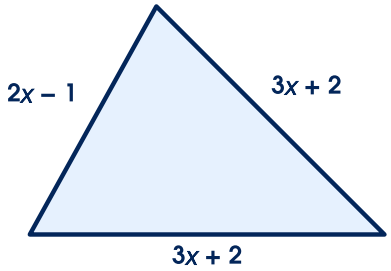
(b) $20pq \div 4q$

3 Cara says,

"$2m + 6n = 8mn$"

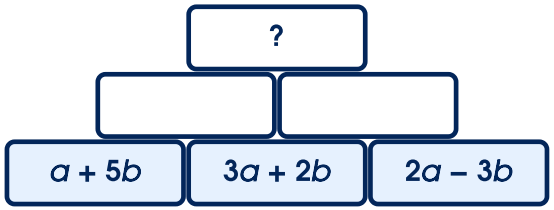
Explain why Cara is wrong.

4 Here is a triangle.



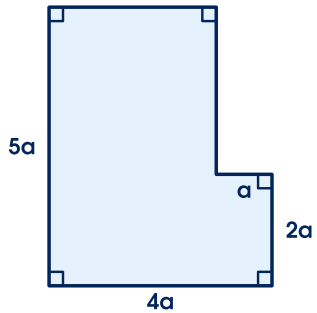
Show that the perimeter simplifies to $8x + 3$

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 3

Simplifying expressions

1 (a) $3m - 2n$

(b) $18pq$

2 (a) $-y^2 + 8y$

(b) $5p$

3 m and n are unlike terms, so they cannot be collected.

$2m + 6n$ **cannot be simplified**

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

$= 8x + 3$ ✓

5 Middle row: $4a + 7b$ and $5a - b$

Top: $9a + 6b$

6 Missing sides: 3a and 3a

Perimeter = $18a$

Mr&Mrs MATHS