GCSE FOUNDATION · REVISION MAT 4

Simplifying expressions

1 Simplify

(a) $9p - 3q - 4p + 7q$

(b) $2m \times 7m$

2 Simplify

(a) $4m^2 + m - m^2 - 6m$

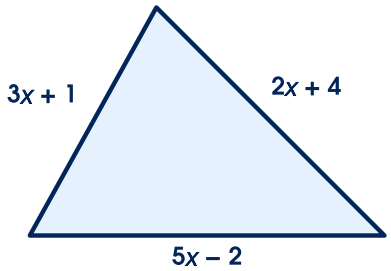
(b) $18mn \div 6n$

3 Dev says,

"$4p + 3q = 7pq$"

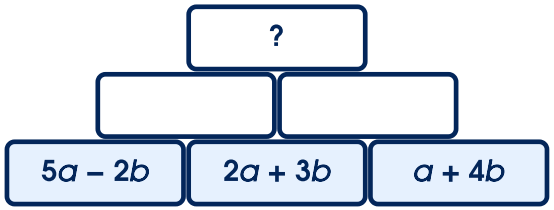
Explain why Dev is wrong.

4 Here is a triangle.



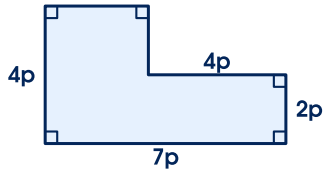
Show that the perimeter simplifies to $10x + 3$

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.

1 (a) $5p + 4q$

(b) $14m^2$

2 (a) $3m^2 - 5m$

(b) $3m$

3 p and q are unlike terms, so they cannot be collected.

$4p + 3q$ **cannot be simplified**

ANSWERS · REVISION MAT 4

Simplifying expressions

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

$= 10x + 3$ ✓

5 Middle row: $7a + b$ and $3a + 7b$

Top: $10a + 8b$

6 Missing sides: 3p and 2p

Perimeter = $22p$

Mr&Mrs MATHS