GCSE FOUNDATION · REVISION MAT 5

Simplifying expressions

1 Simplify

(a) $2c + 8d - 5c + d$

(b) $8y \times 3x$

2 Simplify

(a) $6t^2 - 3t + 2t^2 + 9t$

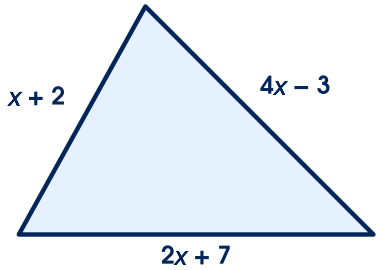
(b) $24xy \div 8y$

3 Ezra says,

"$6c + 5d = 11cd$"

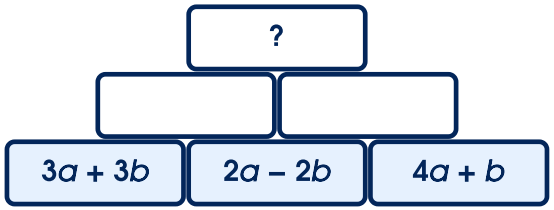
Explain why Ezra is wrong.

4 Here is a triangle.



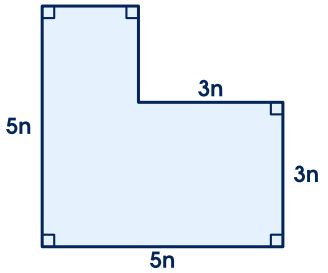
Show that the perimeter simplifies to $7x + 6$

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 5

Simplifying expressions

1 (a) $-3c + 9d$

(b) $24xy$

2 (a) $8t^2 + 6t$

(b) $3x$

3 c and d are unlike terms, so they cannot be collected.

$6c + 5d$ **cannot be simplified**

4 $(2x + 7) + (4x - 3) + (x + 2)$

$= 7x + 6$ ✓

5 Middle row: $5a + b$ and $6a - b$

Top: $11a$

6 Missing sides: 2n and 2n

Perimeter = $20n$

Mr&Mrs MATHS