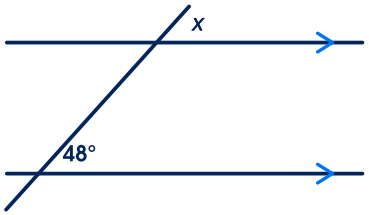
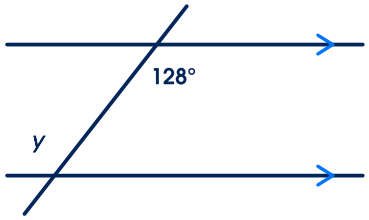
GCSE FOUNDATION · REVISION MAT 4

Angles in parallel lines

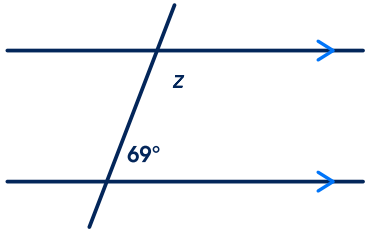
1 Work out the size of angle x.
Give a reason for your answer.



2 Work out the size of angle y.
Give a reason for your answer.



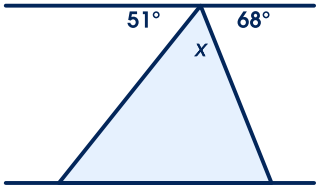
3 Show that angle $z = 111°$. Give a reason.



4 Two lines are crossed by a third line.
A pair of corresponding angles are 118° and 115°.

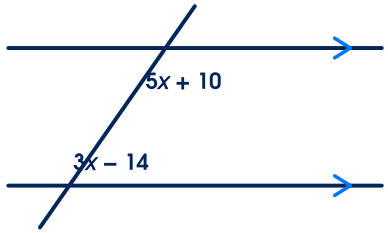
Explain how you know the
two lines are not parallel.

5 The two horizontal lines are parallel.



Work out the size of angle x. Give reasons.

6 Work out the value of x.



Mr&Mrs MATHS

1 **48°**

Corresponding angles are equal.

2 **128°**

Alternate angles are equal.

3 Co-interior angles add up to 180°.

180 – 69 = **111°** ✓

ANSWERS · REVISION MAT 4

Angles in parallel lines

4 If the lines were parallel, corresponding angles would be **equal**.

118° ≠ 115°, so the lines are not parallel.

5 The angles at the base are 51° and 68° (alternate angles).

180 – 51 – 68 = **61°** (angles in a triangle)

6 Co-interior angles add up to 180°.

$8x - 4 = 180$

$x = 23$

Mr&Mrs MATHS