

Angles in parallel lines *key words*

ANSWERS

A Fill in the missing words from the word bank.

Word bank

Two words are not needed.

alternate

arrows

bisector

~~co-interior~~

corresponding

distance

equal

parallel

reason

reflex

transversal

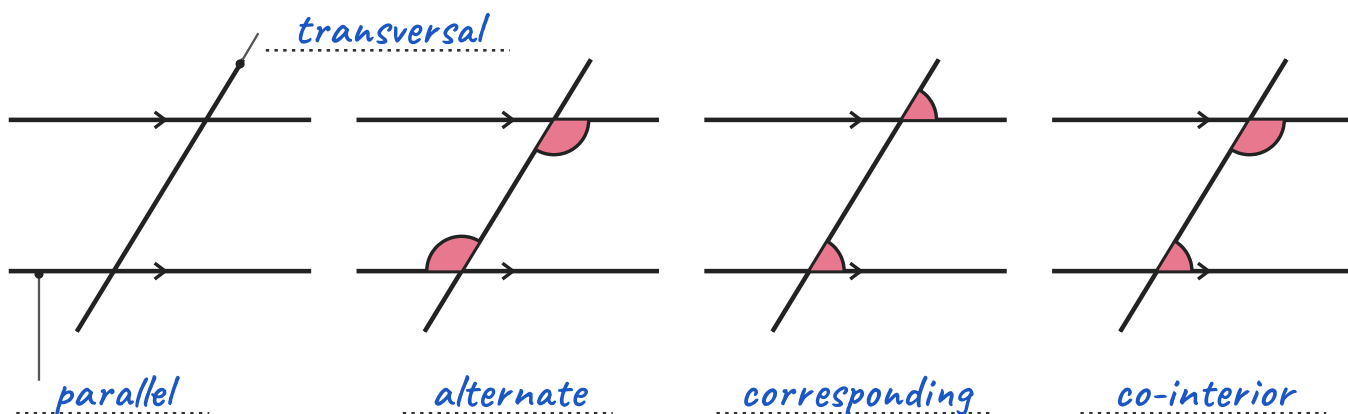
vertically

Lines that are parallel are always the same distance apart and never meet. On a diagram they are marked with arrows. A line that crosses two parallel lines is called a transversal.

Angles on opposite sides of the transversal, between the parallel lines, are alternate angles. They are equal. Angles in the same position at each crossing are corresponding angles, and they are equal too.

Angles on the same side of the transversal, between the parallel lines, are co-interior angles. They add up to 180° . At each crossing, vertically opposite angles are equal. Every angle you find needs a reason, such as 'alternate angles are equal'.

B Label the diagram. No word bank this time. Each label gives the first letters.



C Each sentence uses the wrong key word. Cross it out and write the right word.

1 Angles in the same position at each crossing are alternate angles.

corresponding

2 Corresponding angles add up to 180° .

co-interior

3 A line that crosses two parallel lines is called a diagonal.

transversal

4 Two lines at right angles to each other are parallel.

perpendicular