

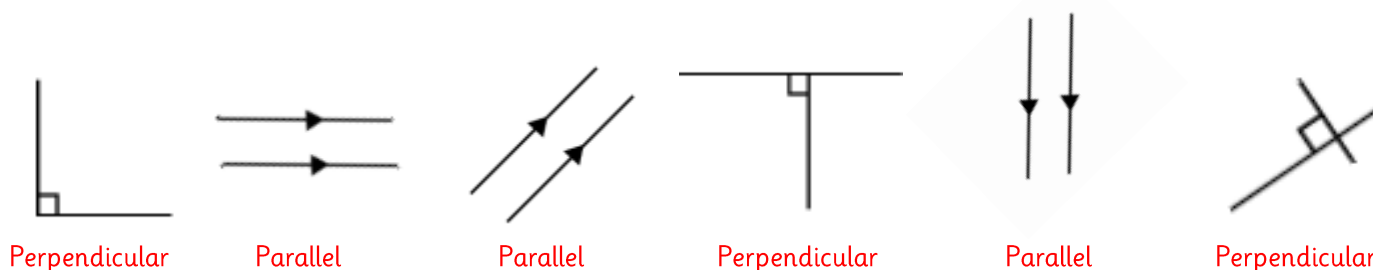
L.O. To identify parallel and perpendicular lines. **With ANSWERS**

Straight lines that are adjacent to each other and will never meet are called **Parallel** lines. They always remain the same distance from each other.

Straight lines that are at a right angle to each other are called **Perpendicular** lines. Perpendicular lines may meet or cross at the right angle, but they don't always.

Layer 1 – Parallel or Perpendicular?

Give each set of lines the correct label.



Layer 2 – Lines within shapes

Which shapes have parallel lines? **B, C, D**

Which shapes have perpendicular lines? **A, C, D**

Do any of the shapes have both types of line? **C, D**



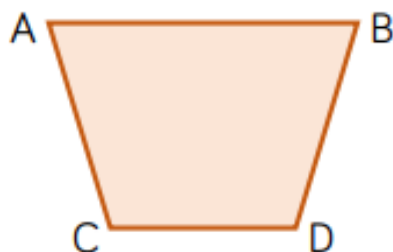
Layer 3 – Convince me.

These lines are parallel.



These lines are **NOT** parallel, because the distance between them changes at different points of the line. If you kept on drawing the lines, they would eventually meet, so they can't be parallel.

Greater Depth – True or False?



Line AB is parallel to line CD. **True**
 Line AC is parallel to line BD. **False**
 Line AC is perpendicular to line CD. **False**

Challenge - re-draw the shape so that line BD is perpendicular to line CD. The shape would look like this. →

