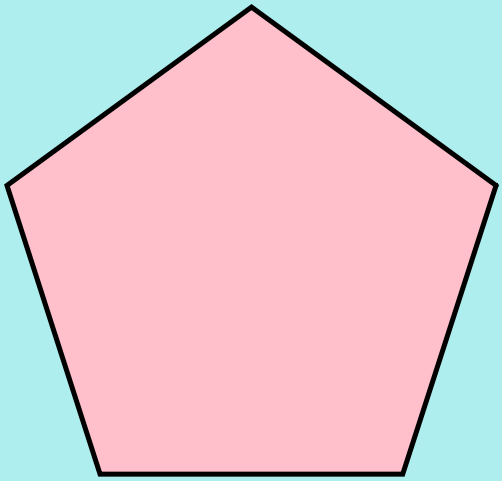
27.05.21

LO: To identify parallel and perpendicular lines

Starter: What is this shape?



What is a horizontal line?

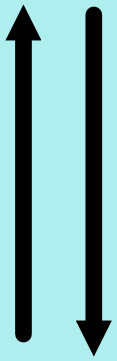
A horizontal line is a line that goes from left to right or right to left. Think of the horizon when you're stood on a beach.





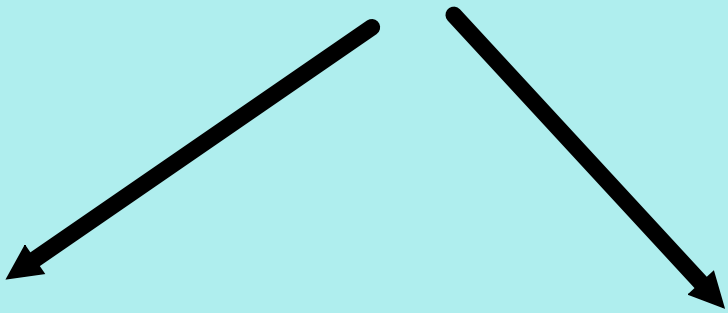
What is a vertical line?

A vertical line is a line that goes up and down, rather that left to right.

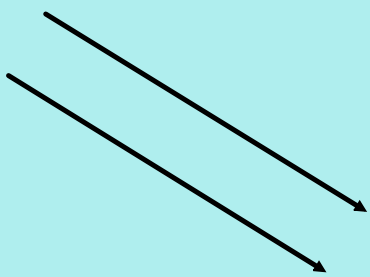


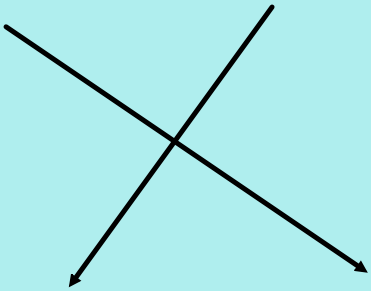
What is a diagonal line?

A diagonal line goes from corner to corner. It isn't horizontal, and it isn't vertical.

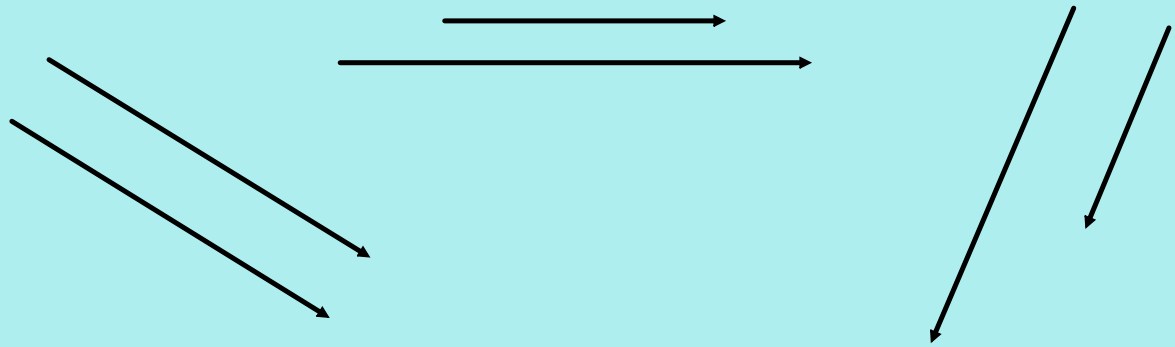


All horizontal, vertical, and diagonal lines can be parallel or perpendicular.

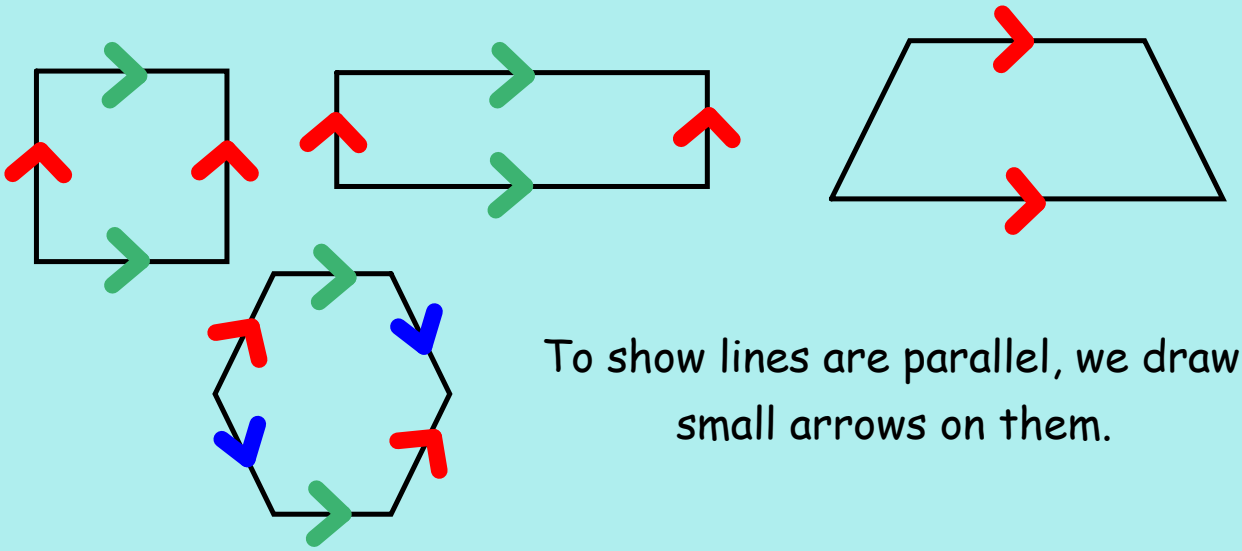




Parallel lines are lines that never meet. They run along side each other, and no matter how long you made them, they would never touch each other.

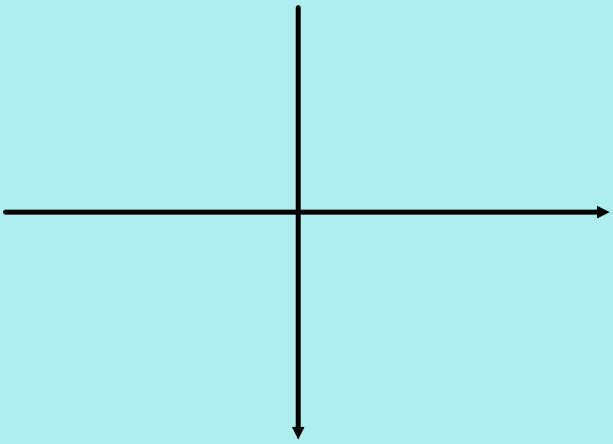


Lots of the shapes that we looked at yesterday have parallel lines.

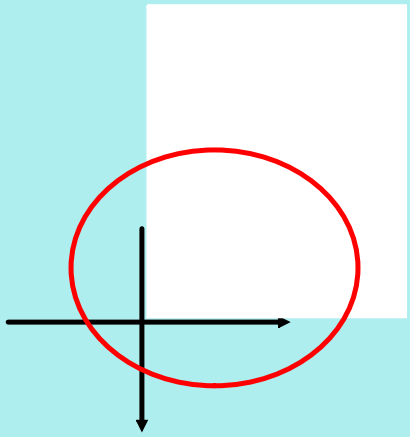


To show lines are parallel, we draw small arrows on them.

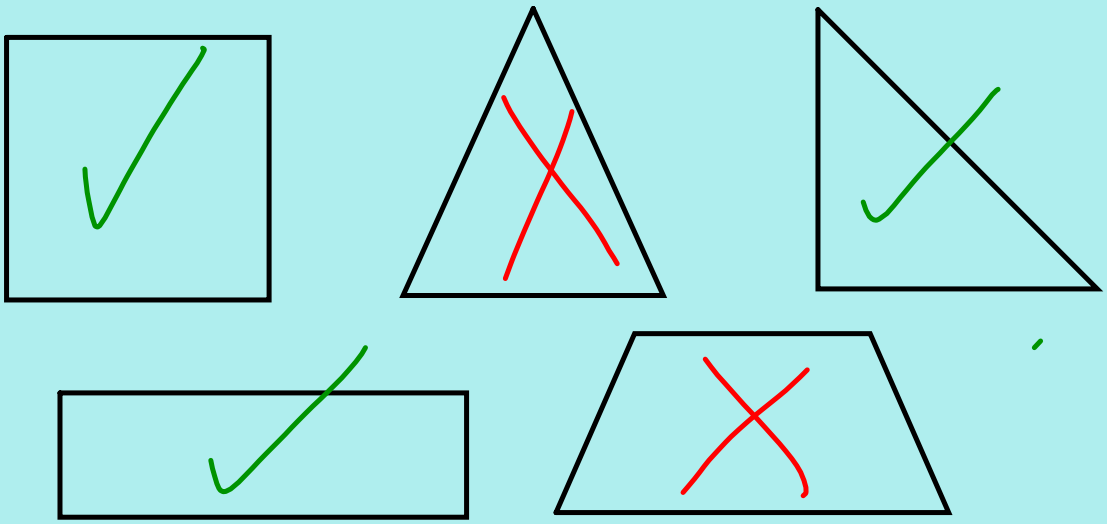
Perpendicular lines are lines that cross each other at right angles. That means, usually, one angle is horizontal and one line is vertical.



One way to check if a shape has perpendicular lines is to hold the corner of a piece of paper against the meeting point. If the paper fits perfectly, it is perpendicular.



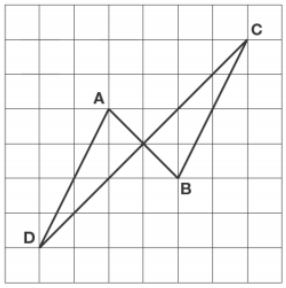
Which of these shapes have perpendicular lines?



I do:

The diagram shows four lines drawn on a square grid.

The lines are **AB**, **BC**, **CD** and **DA**.



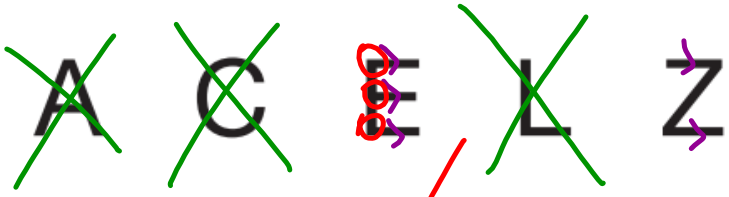
Which two of the lines are **parallel**?
Circle them in the list below.

AB BC CD DA

We do:

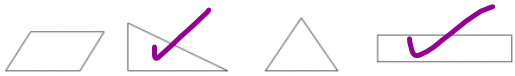
Look at the letters below.

Circle the letter below that has both parallel **and** perpendicular lines.

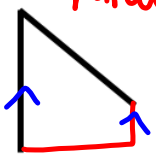


You do:

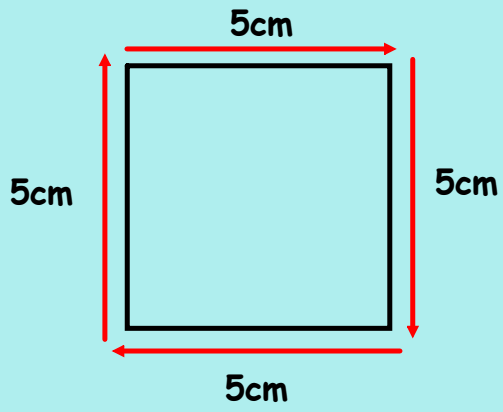
Tick the two shapes that have perpendicular lines:



Add two lines to this shape to create a quadrilateral with ~~perpendicular~~ Parallel lines.



We can calculate the size around the outside of a shape by looking at the lines it has and the measurements. We call this the perimeter of the shape.

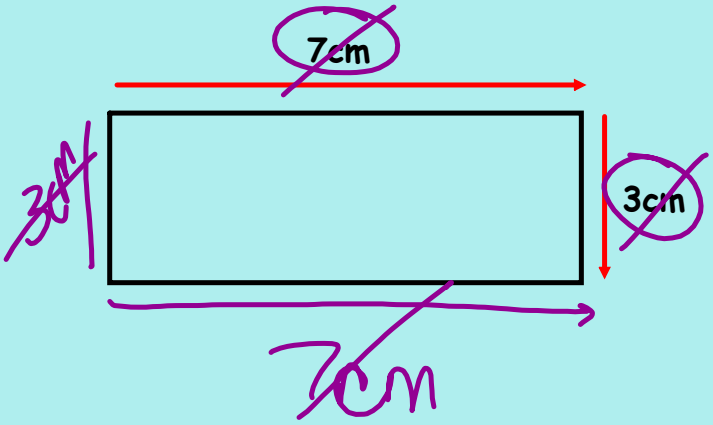


5 + 5 + 5 + 5 = 20

The perimeter of the shape is 20cm.

I do - Silent teacher:

Calculate the perimeter of the shape.

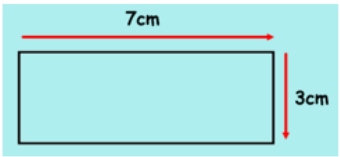


7+7=14cm

3+3=6cm

14+6=20cm

the perimeter of the shape is 20cm.

I do	We do	You do
 7 + 7 = 14 3 + 3 = 6 14 + 6 = 20 The shape has a perimeter of 20cm.	Why did I add two lots of 7? Why did I add two lots of 3? Why is the answer 20cm not just 20?	Calculate the perimeter of this shape: 