

Wednesday Maths

L.O. To identify different types of lines, including vertical, horizontal, parallel and perpendicular

Mathematical Talk

What can you use to help you remember what a horizontal line looks like? (The horizon)

Can you see horizontal and vertical lines around the classroom?

What do we call a line that is not horizontal or vertical?

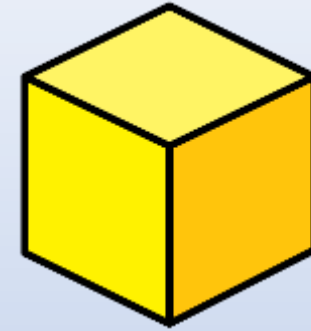
Which shapes/symbols/letters have a horizontal/vertical line of symmetry?

Which have both?

Can you draw your own shape that has a horizontal and vertical line of symmetry?

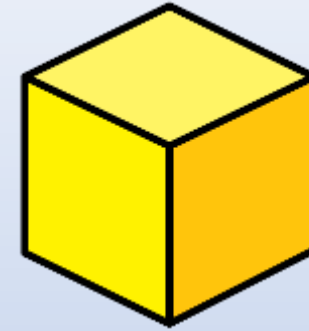
Flashback: How much can you remember?

- 1) Name a four-sided shape that has four right angles.
- 2) Sarah goes on an 90 minute walk at 9 am,
Ted goes on a 30 minute walk at 10:15am
Who finishes their walk first?
- 3) What time is 55 minutes after 11:30?
- 4) $650 \div 5 =$



Flashback: Answers

1) Name a four-sided shape that has four right angles. **Rectangle or square**



2) Sarah goes on an 90 minute walk at 9 am,
Ted goes on a 30 minute walk at 10:15am
Who finishes their walk first?

Sarah

3) What time is 55 minutes after 11:30?

12:25

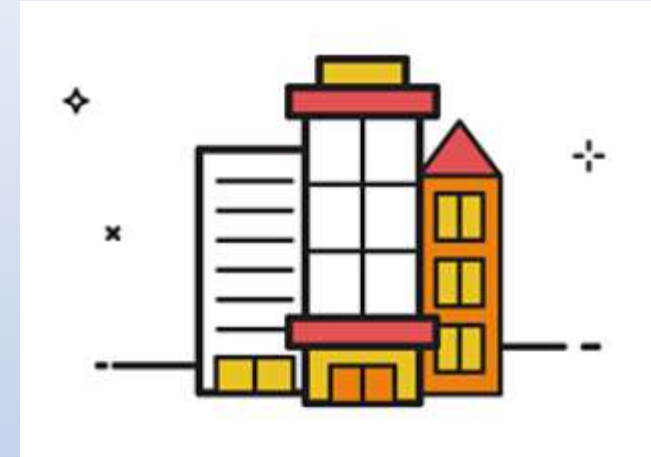
4) $650 \div 5 =$ **130**

Learn:

Watch this video about lines – horizontal and vertical.

<https://vimeo.com/430336963>

We see lines everywhere around us all the time, for example on buildings, books, televisions, photo frames, roads etc.

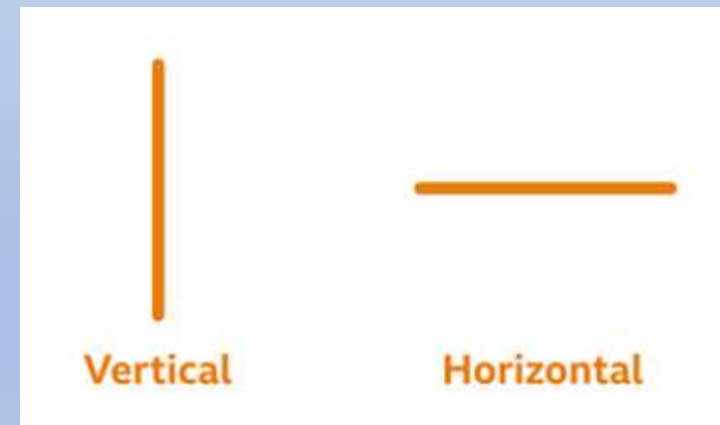


Did you know that different types of lines have different names?

Types of lines

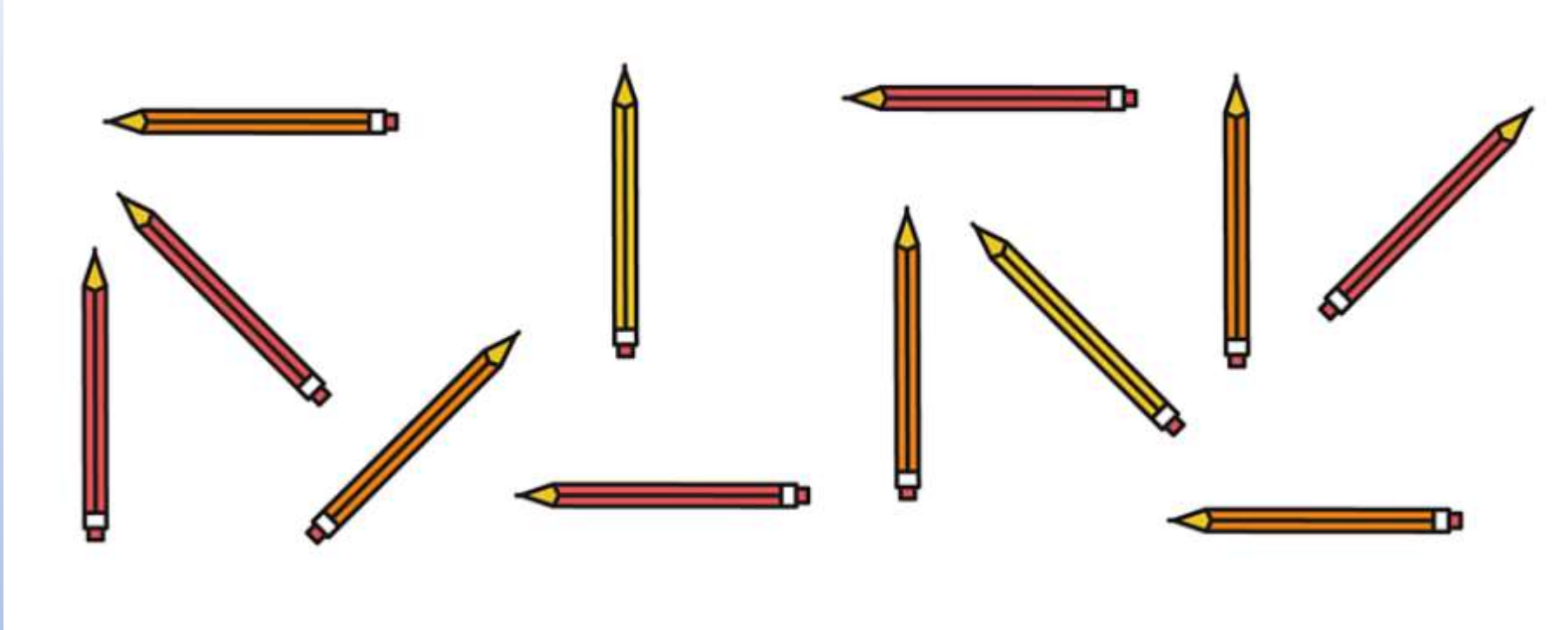
A **vertical** line goes up and down.

A **horizontal** line goes left to right.



Why not have a look around and see if you can find any horizontal and vertical lines?

Now have a look at the pencils below. Can you count how many **vertical** and **horizontal** pencils there are?



How many did you find? You can see that there are 4 vertical pencils and 4 horizontal pencils.

Practise

Activity 1

Parallel names

Write your name in capital letters, like in the example below.

- How many pairs of **parallel** lines can you find?
- How many pairs of **perpendicular** lines?
- Which capital letter has the most **parallel** lines in it?
- Which capital letter has the most **perpendicular** lines in it?

THOMAS

Activity 2

House of lines

This is a two-player game.

Pick a room in your house!

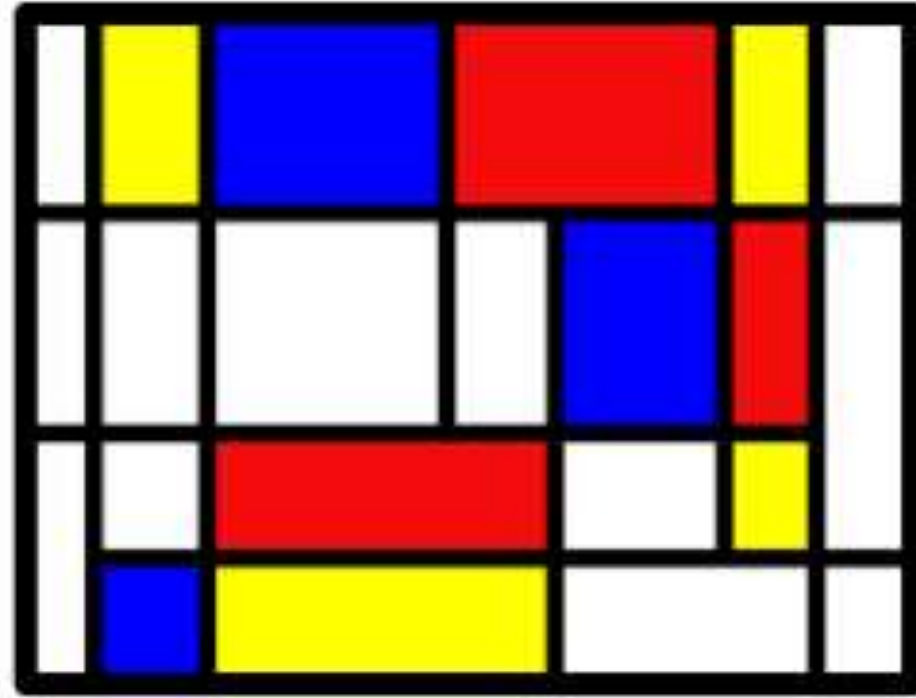
Player 1 gets a point for every pair of parallel lines they can find in the room.

Player 2 gets a point for every pair of perpendicular lines they can find.

The player with the most points wins!



Challenge:



How many horizontal and vertical lines can you spot in this image by Mondrian?

Create your own piece of art work using only horizontal and vertical lines.

Challenge Answer: There are 5 horizontal lines and 8 vertical lines.