

# Unit 16

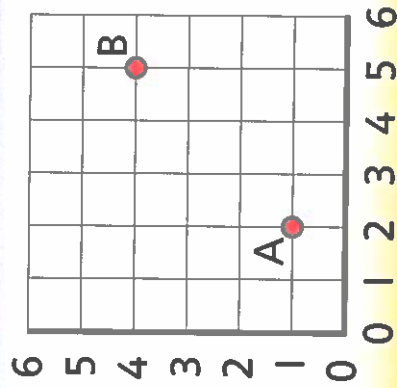
## Geometry – position and direction



In this unit we will ...

- ⚡ Use numbers to say where things are on a grid
- ⚡ Plot points on a grid
- ⚡ Use our knowledge of shapes to complete diagrams
- ⚡ Describe movements on a grid

Point A is '2 across and 1 up'.  
Where is Point B?

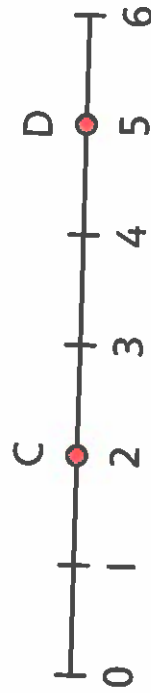
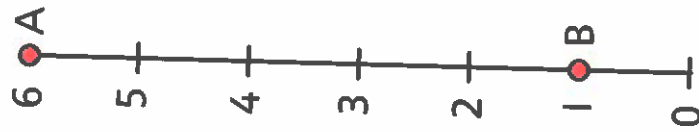


We will need some maths words.  
Which ones go together?

|            |            |           |
|------------|------------|-----------|
| position   | horizontal | vertical  |
| up         | down       | left      |
| coordinate | square     | rectangle |
| plot       | vertex     | vertices  |
| point      | grid       |           |

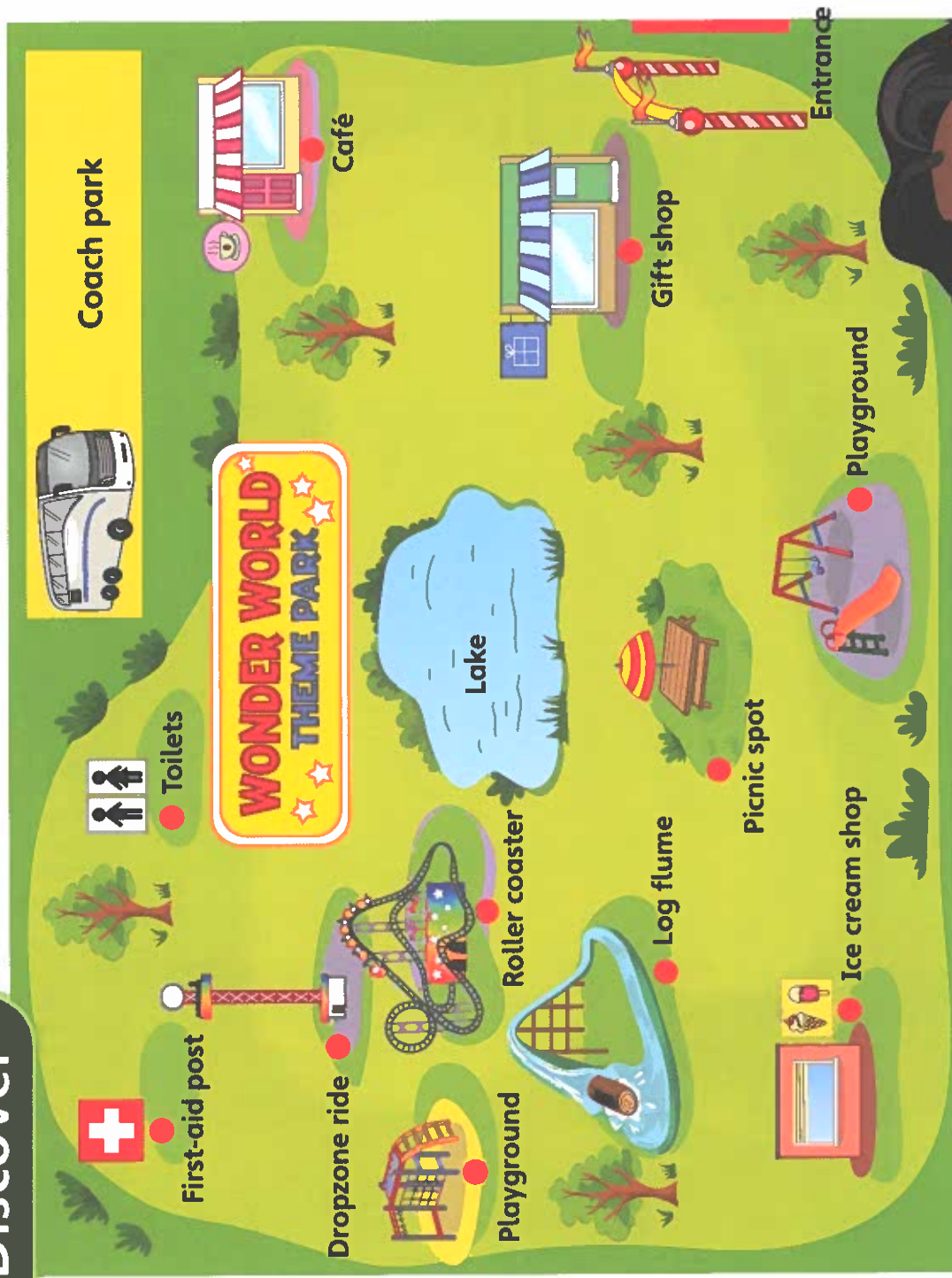


You will need to know  
how to find numbers  
on a number line. What  
are the numbers marked  
with letters?



# Describing position 1

## Discover



Bella

I am looking for the place that is next to the log flume, and close to a playground.

- Which place is Bella looking for?  
How can you tell?
- Describe the position of the same place in another way.

## Share

- The roller coaster, the picnic spot and the ice cream shop are all next to the log flume.



I need to use both pieces of information. Only one place is next to the log flume and close to a playground.



Bella is looking for the roller coaster.

- The position of the roller coaster can be described in lots of different ways.



I will say that the roller coaster is between the playground and the lake.

I wonder if it is exactly half-way.

The roller coaster is half-way between the log flume and the dropzone ride.

# Think together



1 Identify each of these places from its description.

- a) The place near the top of the map, close to the coach park.
- b) The feature in the centre of the map.
- c) The closest place to the entrance.
- d) The closest place to the lake.

2 Describe the positions of these places. There may be more than one way to describe each one.

- a) The ice cream shop
- b) The café
- c) The dropzone ride
- d) The first aid post

## CHALLENGE

3 Here is another version of the map of the theme park.



Use this version of the map to find each of these places from its description.

- a) This place is half-way between the roller coaster and the ice cream shop.
- b) This place is two spaces to the right of the first aid post.
- c) This place is seven spaces across from the left edge of the map, and three spaces up from the bottom.



Do the squares on the map (the **grid**) make it easier to say where things are? Why?