

Maths Through the Year: Record of activities



Summer 2020 (First half)

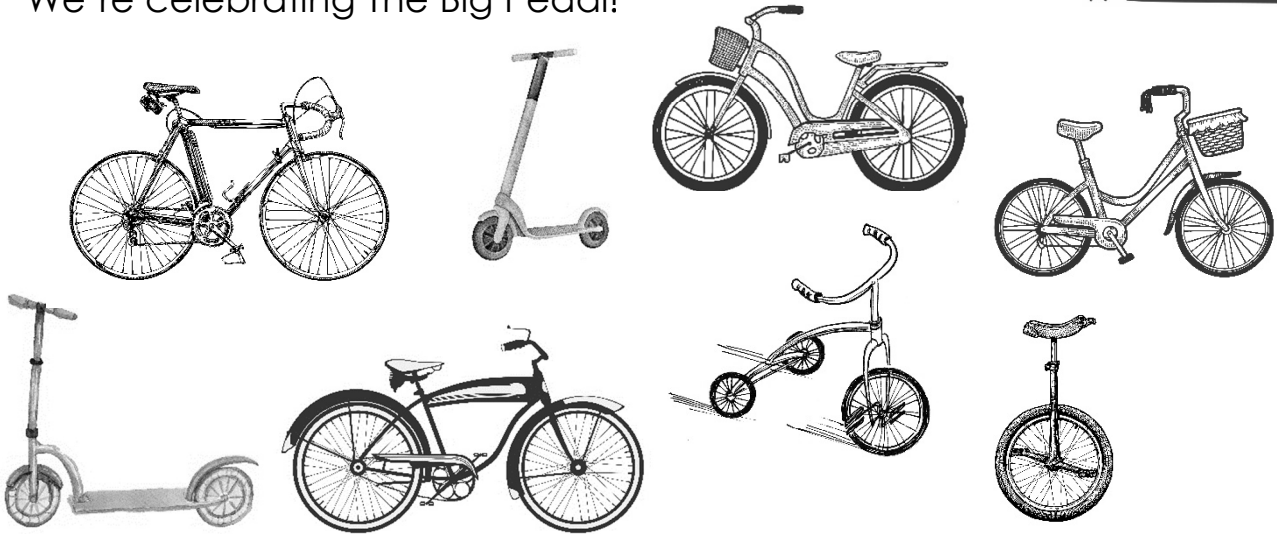
| Year | Event | Date | Name of Activity | Mathematics Topics |
|-----------|--------------------------|--|--------------------|--|
| Reception | The Big Pedal | 22 nd April – 5 th May | Pedal power | Number – counting, addition and subtraction |
| 1 | National Gardening Week | 27 th April – 3 rd May | Flower facts | Number – addition and subtraction |
| 2 | World Penguin Day | 25 th April | Order the penguins | Number – place value and ordering |
| 3 | International Dance Day | 29 th April | Dancing maths | Geometry – position and direction |
| 4 | International Museum Day | 18 th May | Museum patterns | Geometry – properties of shapes / Geometry – position and direction |
| 5 | Water Saving Week | 11 th May – 15 th May | Measure then save | Measurement |
| 6 | National Pet Month | 1 st April – 10 th May | Pet facts | Number – fractions, decimals, percentages, ratio and proportion / Statistics |

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Pedal power



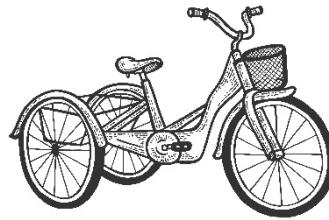
We're celebrating The Big Pedal!



How many bikes



?



How many tricycles



?



How many unicycles



?



How many scooters



?



How many more bikes



are there than scooters



?

How many tricycles



and scooters



?

How many wheels altogether

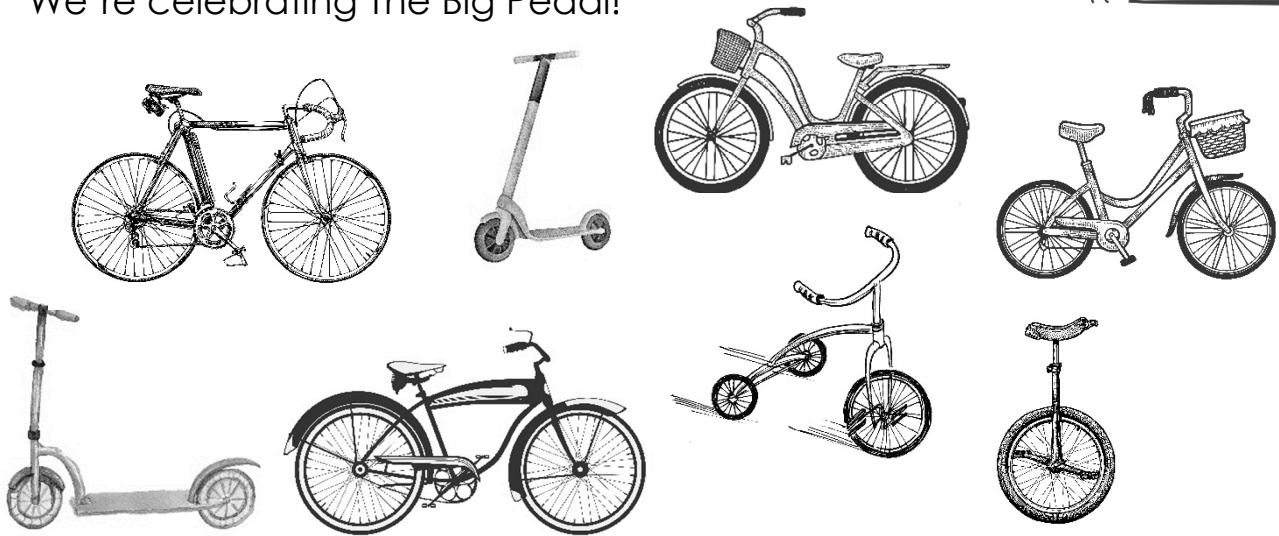


?

Pedal power



We're celebrating The Big Pedal!

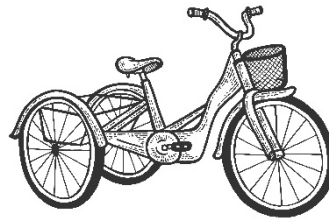


How many bikes



?

6



How many tricycles



?

3



How many unicycles



?

1



How many scooters



?

2



How many more bikes



are there than scooters



?

4

How many tricycles



and scooters



?

5

How many wheels altogether



?

26

Flower facts



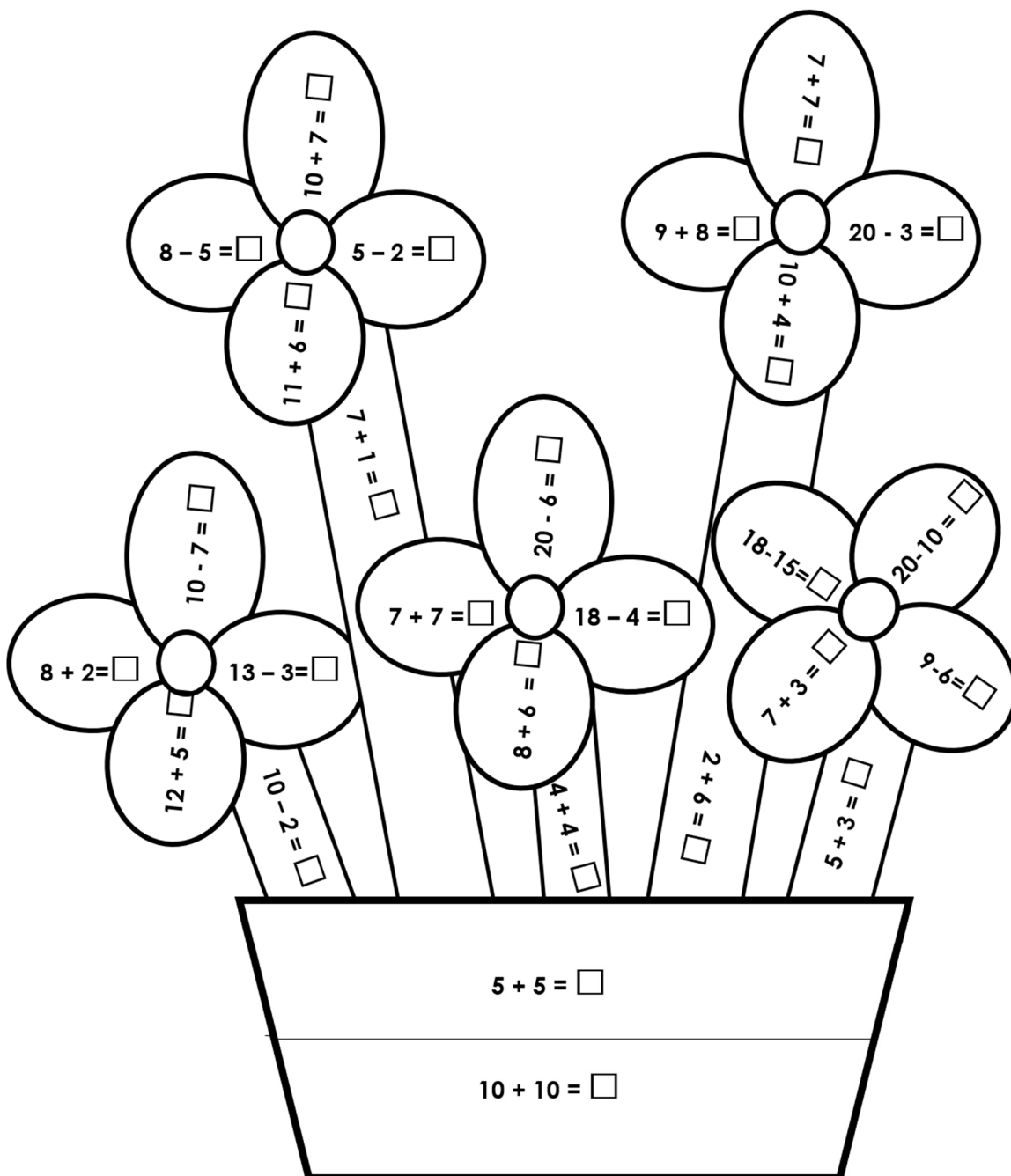
We're celebrating National Gardening Week!

Work out the answer to each fact. Then use the colouring chart to find out how to colour the flower box.

You will need:

- coloured pencils

| | | | | | |
|--------|-------|--------|-----|--------|-------|
| 3 | 8 | 10 | 14 | 17 | 20 |
| yellow | green | orange | red | purple | brown |



Flower facts



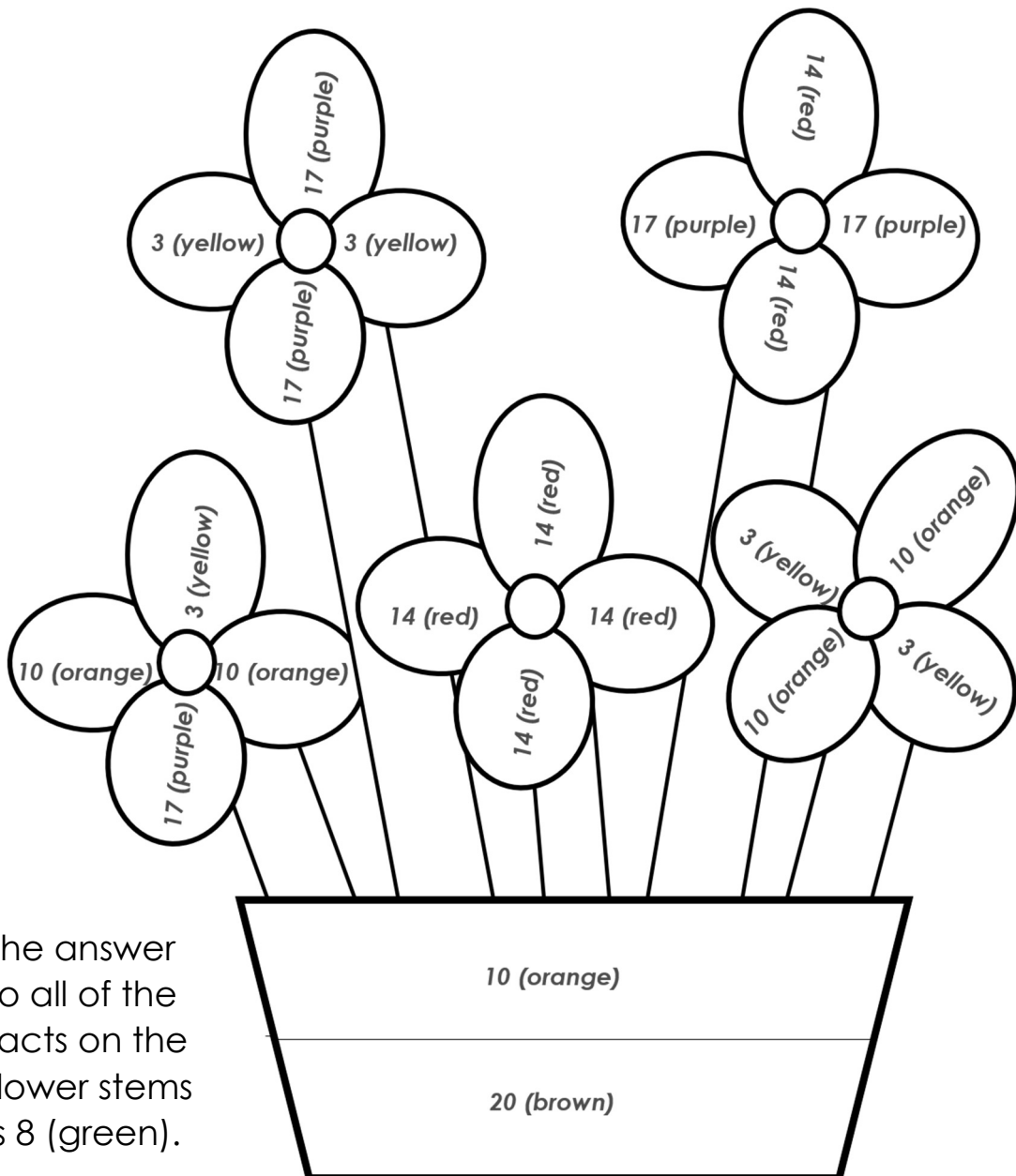
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| | | | | | |
|--------|-------|--------|-----|--------|-------|
| 3 | 8 | 10 | 14 | 17 | 20 |
| yellow | green | orange | red | purple | brown |



The answer to all of the facts on the flower stems is 8 (green).

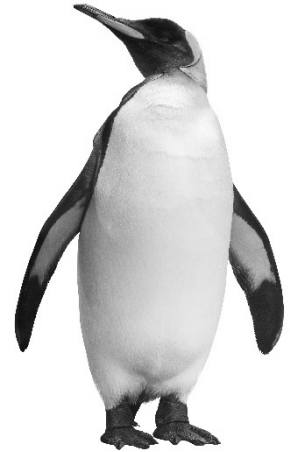
Order the penguins



We're celebrating World Penguin Day!

Look at these facts about some of the different types of penguins.

| Penguin | Average height (cm) | Average mass (kg) |
|-------------|---------------------|-------------------|
| Little Blue | 36 | 1 |
| Yellow-Eyed | 67 | 6½ |
| Rockhopper | 52 | 3 |
| Emperor | 117 | 32 |
| Snares | 53 | 4 |
| Royal | 66 | 6 |
| King | 83 | 14 |
| Humboldt | 64 | 5 |
| Galapagos | 51 | 2 |
| Adelie | 65 | 4½ |



Order the penguins, starting with the lightest penguin.

Order the penguins, starting with the tallest penguin.

Write statements comparing the heights and masses of the different types of penguins.

Order the penguins



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| Humboldt | 64 | 5 |
| Galapagos | 51 | 2 |
| Adelie | 65 | 4½ |



Order the penguins, starting with the lightest penguin.

Little Blue, Galapagos, Rockhopper, Snares, Adelie, Humboldt, Royal, Yellow-Eyed, King, Emperor

Order the penguins, starting with the tallest penguin.

Emperor, King, Yellow-Eyed, Royal, Adelie, Humboldt, Snares, Rockhopper, Galapagos, Little Blue

Write statements comparing the heights and masses of the different types of penguins.

Pupil's statements will vary.

Dancing maths



We're celebrating International Dance Day!


Dance is about angles, direction, movement and symmetry – all things to do with maths.

We can use what we know about these things to help to create a dance.

Imagine you're standing on the star ☆.

If you took 1 step forward you could record that movement as 1↑.

If you took 1 step back you could record that movement as 1↓, and you would be standing on the star ☆ again.

Try this little dance. It has 8 movements. To make it more interesting, each time you go back to the star ☆, clap your hands .

1↑

1↓



1↓

1↑



1←

1→



1→

1←



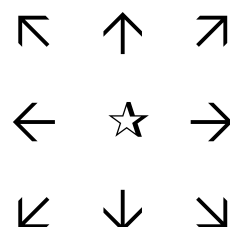
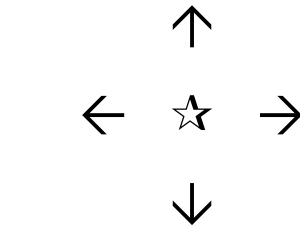
Do you notice that the dance has symmetry? Each time you move in one direction, this is followed by a movement in the opposite direction.

Work with a partner to create your own little dance. Write down your movements so that another pair can do your dance. Try and make your dance symmetrical and perhaps include some simple actions or gestures.

When you've written your dance movements, swap with another pair and do each other's dances.

What about trying to create a dance using these movements?

You could also think about including more than 1 step at a time. For example, 2↖.



Museum patterns



We're celebrating International Museum Day!

Many objects that are found in museums are decorated with elaborate patterns.

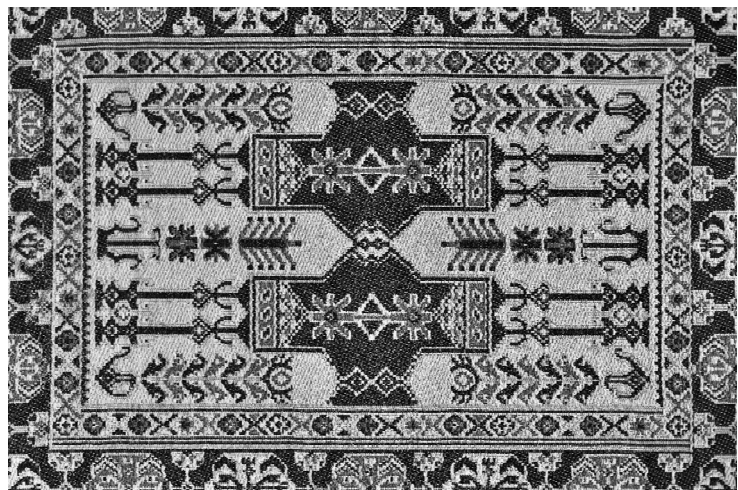
Look carefully at these objects.

The patterns created on these objects use different shapes, lines and often include symmetry.

Investigate other museum objects that include patterns.

You will need:

- paper
- coloured pencils



Create a pattern of your own that is typical of the types of patterns you might see on objects in a museum.

Think about including different shapes, lines and symmetry in your pattern, as well as colour.

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Year 4

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Measure then save



We're celebrating Water Saving Week!

In the UK, each person uses about 150 litres of water a day – that's over 1000 litres each week!

You will need:

- paper
- measuring equipment

Use the 'Personal usage' activities in the table below to help you keep a record of how much water you use in a week.

For the 'Household usage' activities, talk to an adult to find out how much water was used during the week.

| Personal usage | Average water usage |
|---|-----------------------|
| having a drink of water | $\frac{1}{4}$ litre |
| flushing the toilet | 6 litres |
| washing your hands or face (with tap running) | 5 litres each minute |
| brushing your teeth (without tap running) | 2 litres |
| taking a shower | 8 litres each minute |
| taking a power shower | 20 litres each minute |
| having a bath (half-full) | 80 litres |
| Household usage | Average water usage |
| washing dishes in the sink | 10 litres |
| using a full-size dishwasher | 15 litres |
| using a washing machine (full load) | 80 litres |
| cooking and preparing food | 15 litres |
| using a watering can on the garden | 5 litres per can |
| using a hosepipe on the garden | 15 litres each minute |

At the end of the week, look carefully at how much water you, and your household, have used during the week.

Do you use more or less than the average amount of water each person uses per day / week?

What practical things could you and your household do to reduce the amount of water you use each day / week?

Write about your results and your water saving solutions.



Pet facts



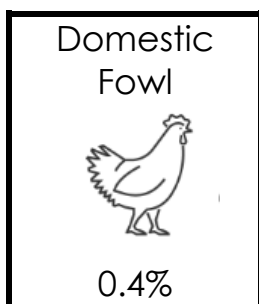
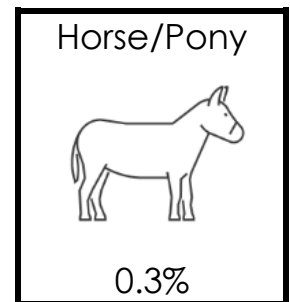
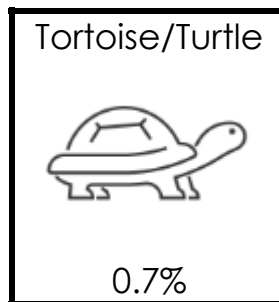
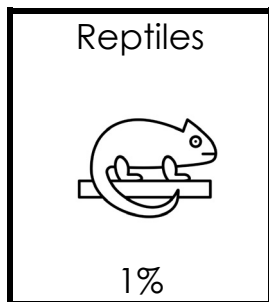
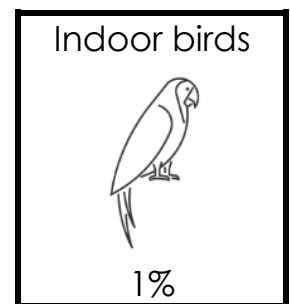
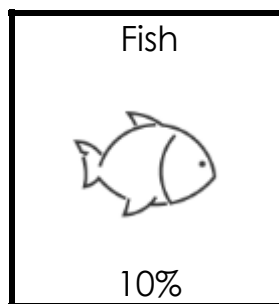
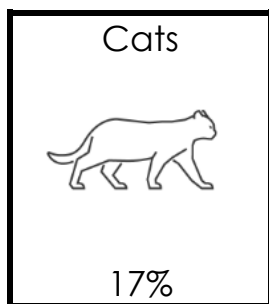
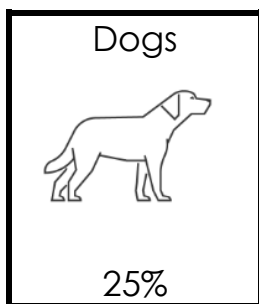
We're celebrating National Pet Month!

The most popular pet in the UK is the dog, with 25% of households owning one.

Use the statistics below to write statements about the UK pet population in 2019.

In 2019 it was estimated that:

- 40% (12 million) of UK households had pets
- there were about 51 million pets in the UK.



Large empty rectangular box for writing statements.