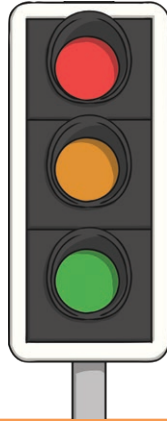Class A did a traffic survey outside school.

Use the tally chart to fill in the missing parts of the 3 pictograms.

Vehicle	Tally
Car	卌 卌 卌 卌
Motorbike	卌 卌 卌
Van	卌
Bus	卌 卌

	🟢🟢🟢		🟢🟢
Car	Motorbike	Van	Bus

Key 🟢 = 5 children

Vehicle	
Car	🟦🟦🟦🟦🟦🟦🟦🟦🟦🟦
Motorbike	
Van	🟦🟦🟦
Bus	

Key 🟦 = 2 children

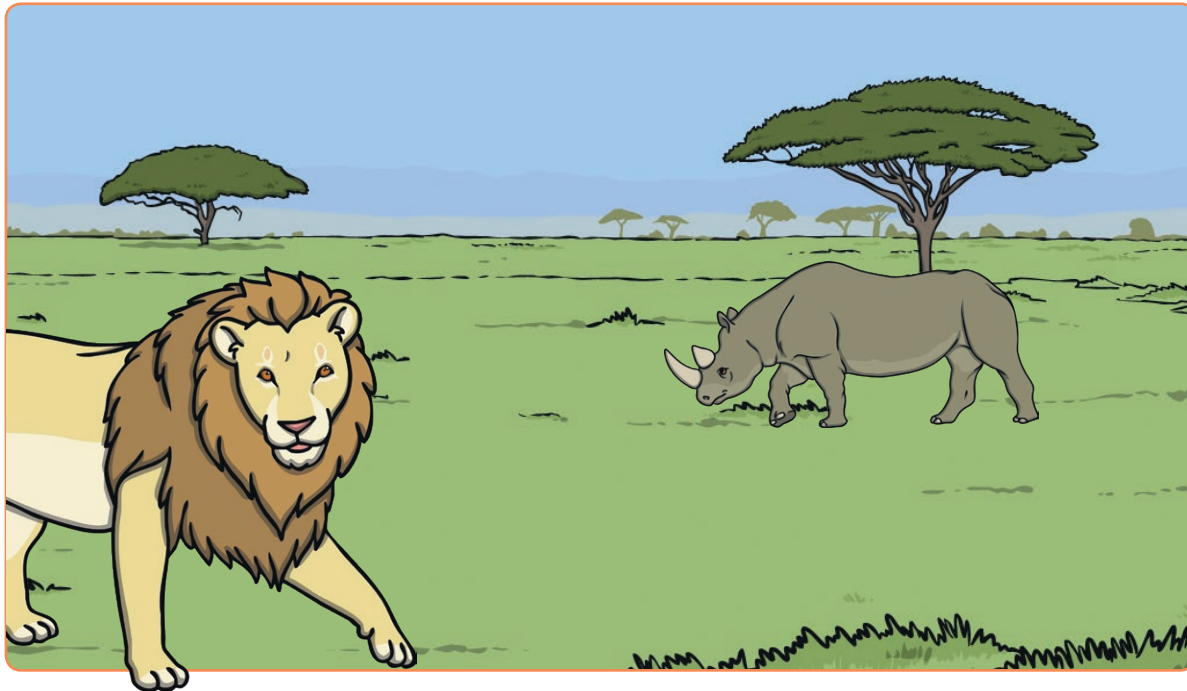| Car	
Motorbike	
Van	🙂
Bus	🙂

Key 🙂 = 10 children
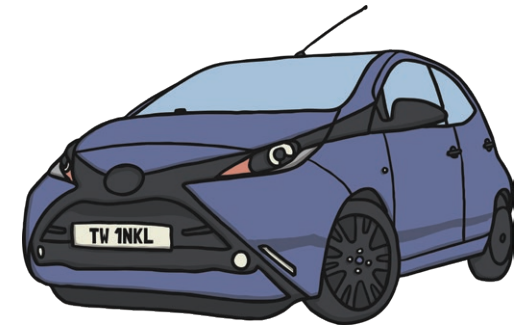
Which pictogram do you think represents the data best? Explain your choice.

Draw Pictograms (2, 5 and 10)

The children from Twinkl Academy have been collecting data about their favourite safari animals.

Anna and Raj are talking about how best to represent this data in a pictogram.

	Tally
Lion	卌 卌 卌 卌 卌
Elephant	卌 卌 卌 卌 卌 卌 卌 卌
Buffalo	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌
Rhino	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌
Leopard	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌

I think each symbol should represent **10** children.

I think each symbol should represent **2** children.

Who do you agree with? Explain why.

What other scales could be used?

Draw Pictograms (2, 5 and 10)

Children in class B collect data about how they travel to school.

Use the clues to work out what is missing from the pictogram.

All the totals are multiples of 5.

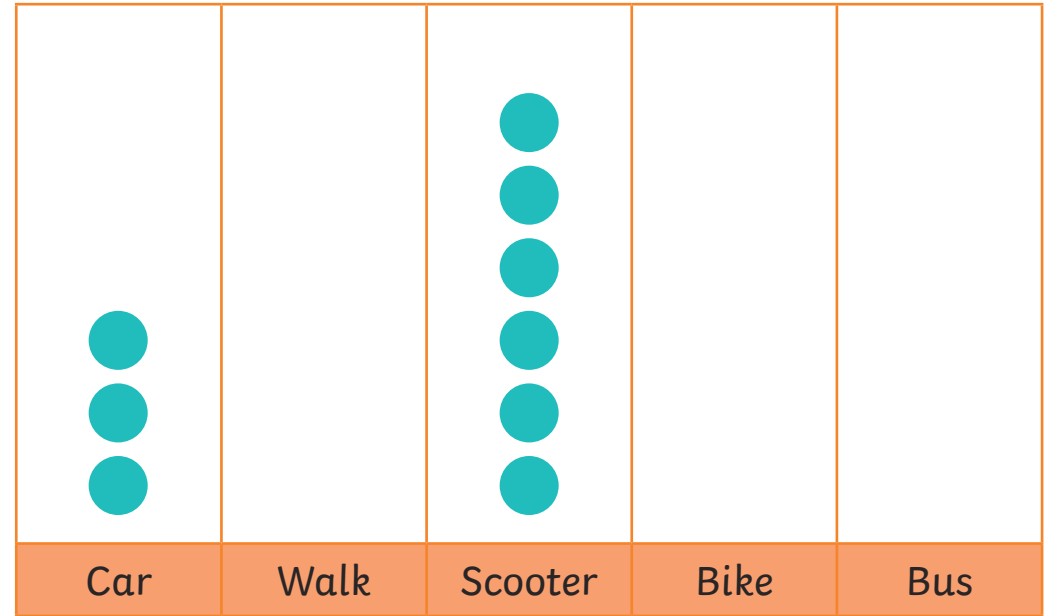15 children travelled by car.

More children walked than came by car.

Fewer children walked than came by scooter.

Bus was the least common way of travelling.

Twice as many children came by bike as by bus.

At least 5 children used each way of travelling.

Car	Walk	Scooter	Bike	Bus

Key ● = ___ children

What does each symbol represent?

Can you find different ways to complete the pictogram?

Diving into Mastery – Diving

Children complete parts of pictograms where one symbol represents two, five or ten items. They also use half a symbol to represent one or five as necessary. They read the key for each pictogram and look at the parts already completed to help them. Children use their skills of counting in twos, fives and tens.

How many of each vehicle did they see?

How can you quickly work out the totals from the tally chart?

What does each square represent in the first pictogram?

How has five been represented?

How will you represent 15 in this pictogram?

What do you notice about the layout of the next pictogram?

What does each circle represent?

Show me how you will complete the car and van columns.

What does each face represent in the last pictogram?

How has the number of vans been shown?

How will you represent the number of cars and motorbikes?

Why is it sometimes useful to use a scale larger than one to one?

Diving into Mastery – Deeper

Children look at totals given in tally chart form and consider which scale would be best to represent the data. They explain their reasoning.

What are the totals for each animal?

Show me how you can use the tally marks to quickly find these totals.

What do you notice about these totals?

How many ones do they have?

What do Raj and Anna say about the scale?

Do you think a scale of twos or tens would be best?

Why?

What other scales could they have suggested?

Diving into Mastery – Deepest
Adult Guidance with Question Prompts

Children use clues to work out what the key to a pictogram is and to fill in the missing parts. They find different possible solutions.

What are the multiples of five?

How many symbols are used to represent the 15 people who travelled by car?

What do you think one symbol represents?

How many children came by scooter?

How many children could have walked?

Is there more than one solution?

What is the fewest number of children who may have come to school by bus?

Why?

What is the largest number of children who could have travelled by bus?

Why?

How many different ways can you complete this pictogram?