L.O: I am getting better at interpreting data from tally charts, pictograms and bar diagrams.

Today we will be looking at tally charts, pictograms and bar diagrams.

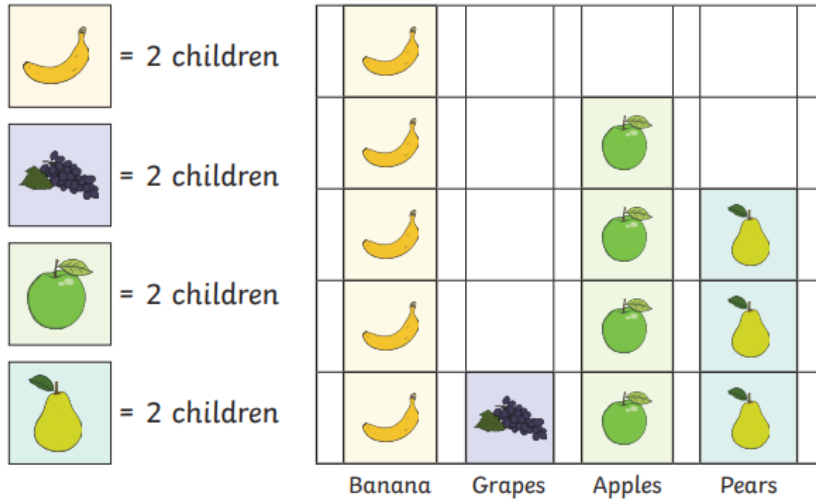There will be a few mixed questions of drawing the diagrams or interpreting the information.

Hopefully this will help you feel secure in the knowledge of reading and using tally charts, pictograms and bar diagrams.

Pet	Tally	Number of Pupils
Hamster	ⵍⵍⵍ IIII	
Dog	ⵍⵍⵍ	
Cat	ⵍⵍⵍ II	
Bird	ⵍⵍⵍ	5
Fish		2
None		9

Number of Pupils

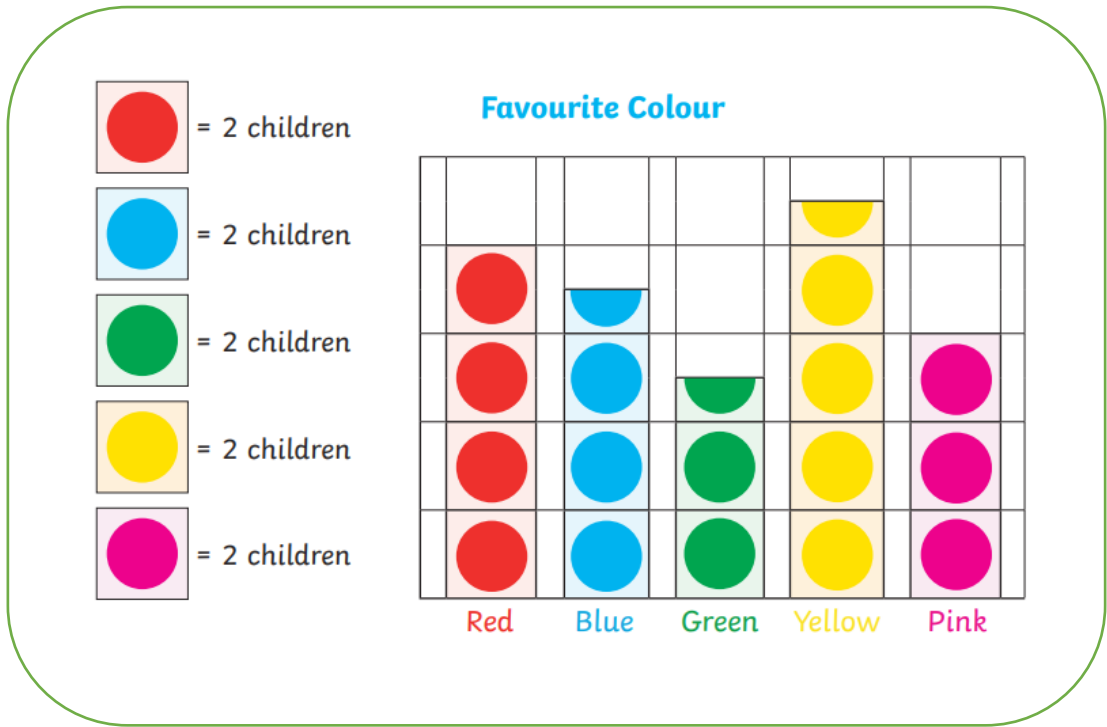|					
Hamster	Dog	Cat	Bird	Fish	None

Pets
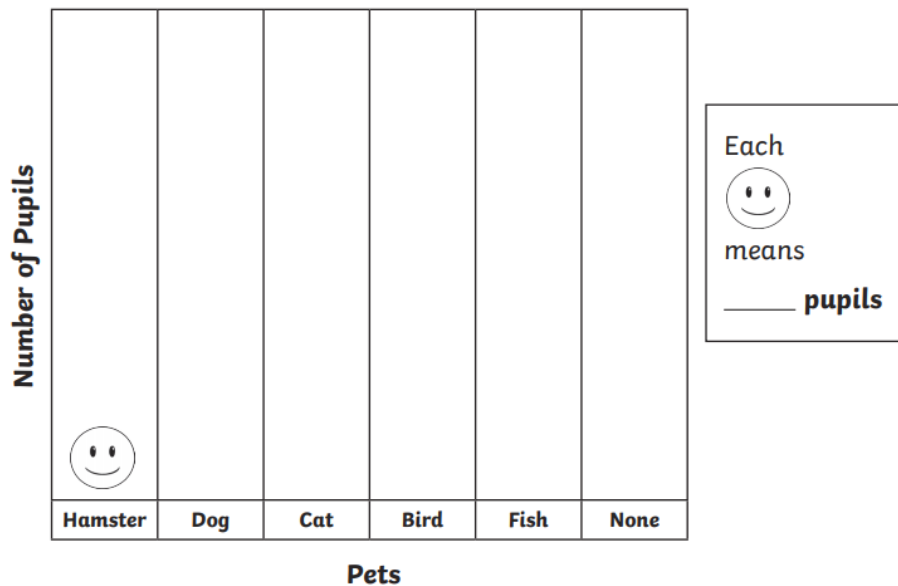
Each
means
_____ pupils

1. What is the most common pet?

2. How many more children have pets than those who don't?

3. How many pets are there altogether?

4. How many pupils have a hamster?

5. How many pupils have a dog?

6. Does the tally chart show that the pupils all have 1 pet each?

Favourite Fruit

	Banana	Grapes	Apples	Pears
	🍌			
	🍌		🍏	
	🍌		🍏	🍐
	🍌		🍏	🍐
	🍌	🍇	🍏	🍐

🍌 = 2 children

🍇 = 2 children

🍏 = 2 children

🍐 = 2 children

1. What is the favourite fruit?

2. How many children chose apples as their favourite fruit?

3. How many more children chose bananas than grapes as their favourite fruit?

4. How many children chose apples or pears as their favourite fruit?

Favourite Colour

Red		Blue		Green		Yellow		Pink

Legend:
- 🔴 = 2 children
- 🔵 = 2 children
- 🟢 = 2 children
- 🟡 = 2 children
- 🔴(pink) = 2 children

1. What is the least favourite colour?

2. How many children chose yellow as their favourite colour?

3. How many fewer children chose green than blue as their favourite colour?

4. How many children chose pink and red as their favourite colour?

Class Pets

	= 2 children
	= 2 children
	= 2 children
	= 2 children
	= 2 children

| Dog | Cat | Fish | Rabbit | Hamster |

1. Which is the most common pet?

2. How many pets are there in class?

3. How many more rabbits than hamsters are there?

4. How many fewer dogs than cats are there?

Sami drew a bar chart to show how many cars of each colour went past his window one afternoon.
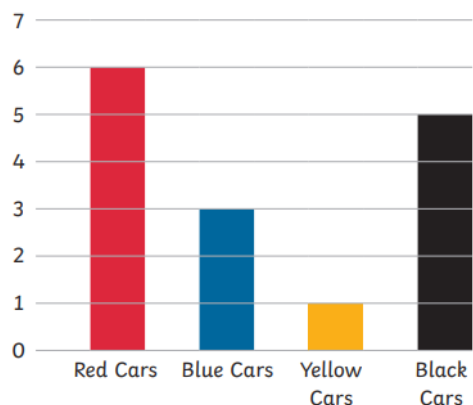
- How many red cars went past his window?
- How many blue cars?
- How many more black cars than blue cars?
- How many cars altogether?

Choose a different way to present the information below.

Favourite Type of Weather

Storm					
Sunshine	⦀⦀ ⦀⦀		
Rain	⦀⦀		
Snow	⦀⦀ ⦀⦀	
Hail				
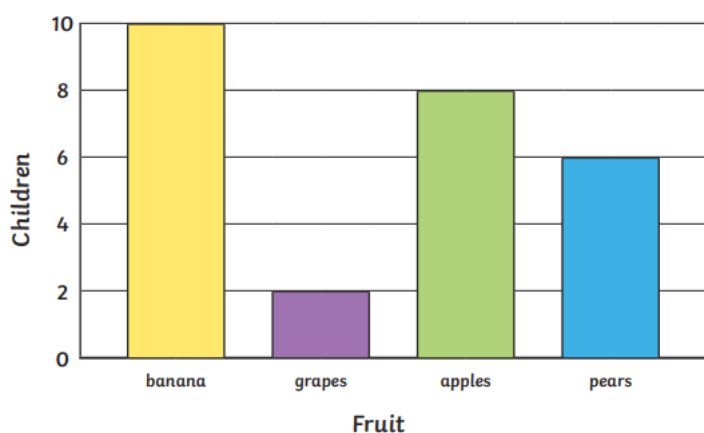
1. What is the favourite fruit?

2. How many children chose apples as their favourite fruit?

3. How many more children chose bananas than grapes as their favourite fruit?

4. How many children chose apples or pears as their favourite fruit?

Favourite Colour

Children (y-axis): 0, 2, 4, 6, 8, 10
Colours (x-axis): red, blue, green, yellow, pink
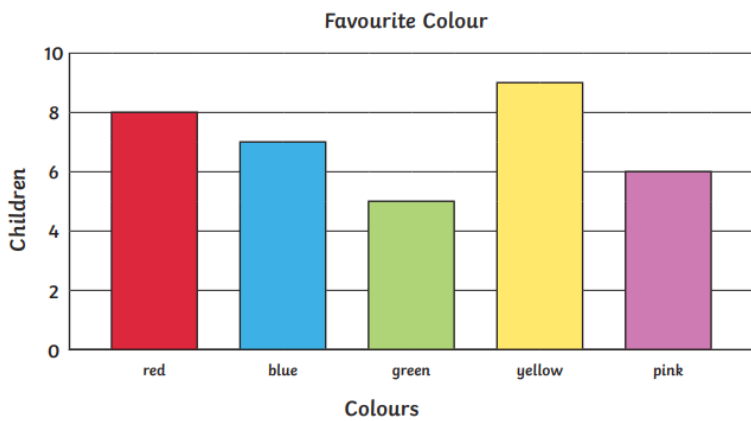
Answer the following questions.

1. What is the most common pet? _____

2. How many pets are there in the class? _____

3. How many more rabbits than hamster are the

4. How many fewer dogs than cats are there? __

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1. What is the least favourite colour?

2. How many children chose yellow as their favourite colour?

3. How many fewer children chose green than blue as their favourite colour?

4. How many children chose pink or red as their favourite colour?
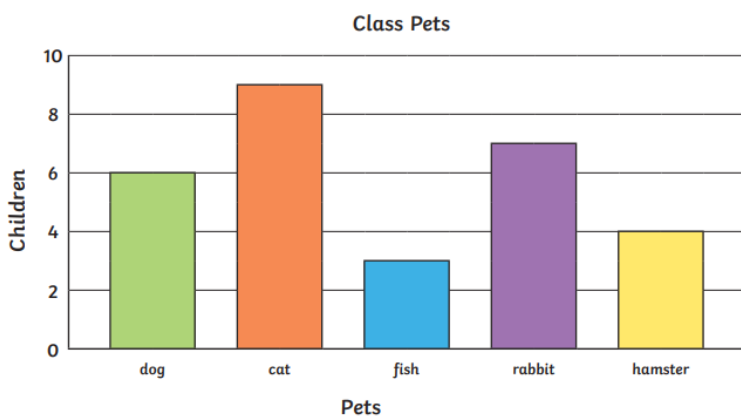
Class Pets

Children (y-axis): 0, 2, 4, 6, 8, 10
Pets (x-axis): dog, cat, fish, rabbit, hamster

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1. What is the most common pet?

2. How many pets are there in the class?

3. How many more rabbits than hamsters are there?

4. How many fewer dogs than cats are there?

1) The children in Class A carried out a survey to find their favourite fruits.
They presented the data in a bar chart.
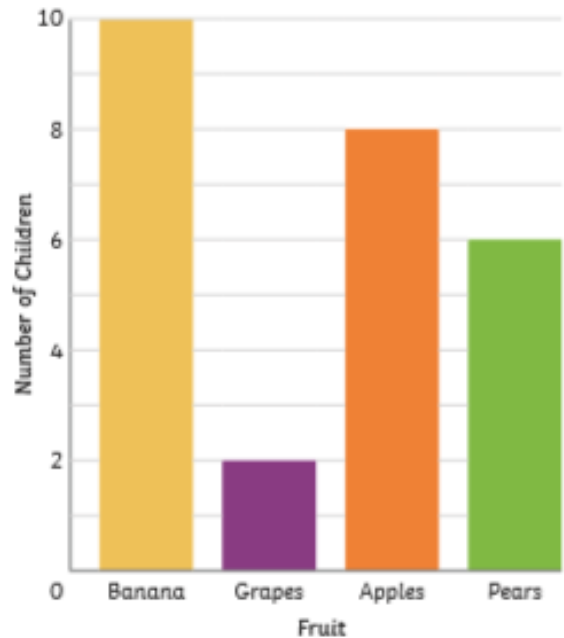
    a) Which fruit is the most popular?

    b) How many children chose pears as their favourite?

    c) What is the least popular fruit?

    d) How many more children chose bananas than apples?

    e) How many children chose apples and pears altogether?

    f) Write a title for the bar chart.

_____

2) The table shows how many children in Class A attend each after-school club.

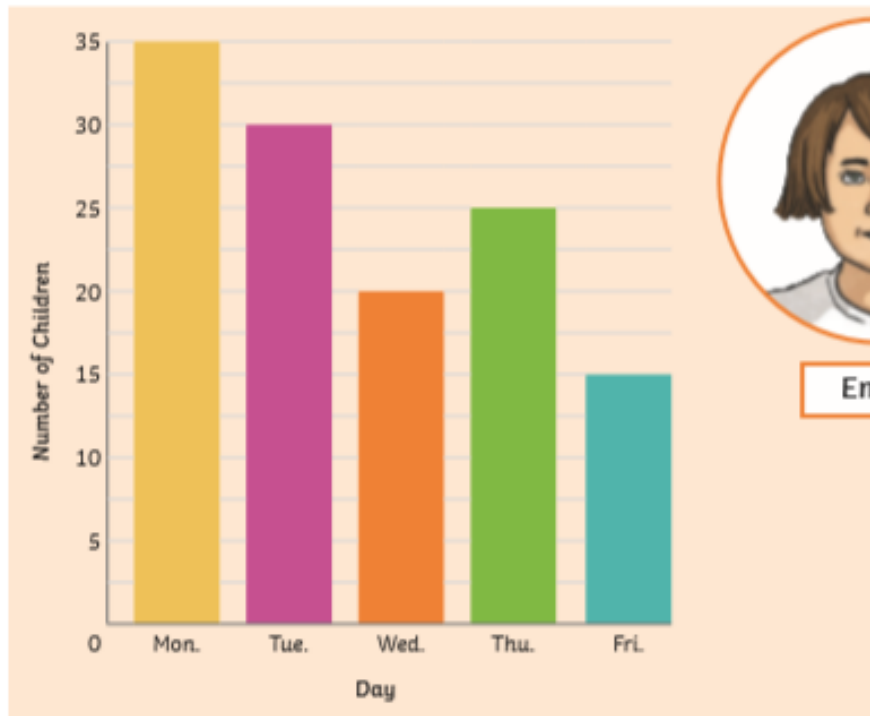| Club	Art	Football	Drama	Music
Total	11	12	8	9

Draw a bar chart to represent the information in this table.
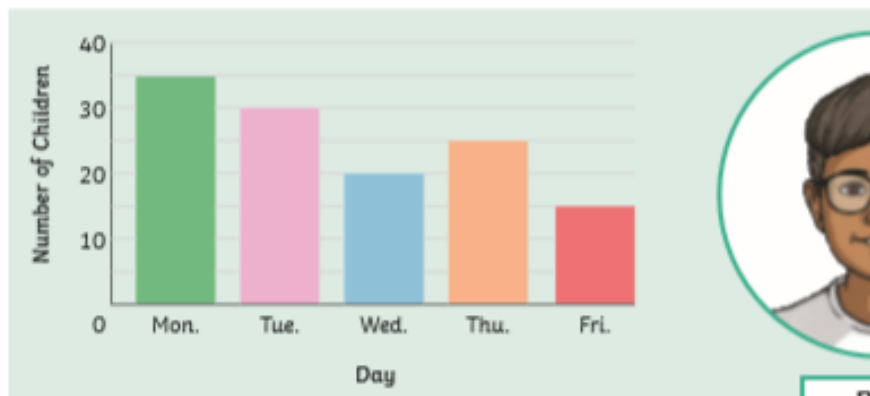
Think carefully about the scale you will choose.

1) Emily and Ben have both drawn bar charts to show how many children go to after-school club each day.

Emily

Ben

a) What is the same?

_____

_____

b) What is different?

_____

_____

c) Which bar chart do you think represents the data best? Why?

_____

_____

1) The bar chart shows what seasons the children from Class A were born in.

a) 2 children have birthdays in the spring. True or false? Explain your reasons.

_____

_____

b) Does the bar chart tell us how many birthdays are in July? Convince me.

_____

_____

c) What's the difference between the number of children born in autumn and winter?

d) How many children are in Class A altogether?

2) Draw a bar chart to show who was born in what season in your class.

Use what you know about bar charts to help you.