

Maths Tasks:

White Rose Year 4 Summer Term Week 10 w/c/ 29th June

On these White Rose Lessons you will watch a little video which clearly explains the processes covered in this week's Statistics and Graphs work.

White Rose Worksheets are found on our class webpage for each lesson as sheets are not available on line

<https://whiterosemaths.com/homelearning/year-4/>

BBC Bitesize Daily Lessons Year 4 Maths w/c/ 29th June

Lessons covering the same learning objectives based on Statistics and Graphs can be found on BBC Bitesize Daily Lessons:

<https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-and-p5-lessons/1>

On this website, they normally have video explaining the processes, online activities and links to twinkl for more sheets to help you with consolidating the knowledge

Year 4/ P5 online lessons Monday 29 June - Friday 3 July					BBC Bitesize Daily lessons	
Monday	Tuesday	Wednesday	Thursday	Friday		
Maths Interpret charts	Maths Comparison, sum and difference	Maths Introducing line graphs	Maths Line graphs	Maths Challenge of the week		

Extra Tasks and Challenges

Task 1: Interpreting Charts

1a. A toy shop are keeping track of how many toys they sell each month.

The staff are thinking how to collect the information.



Ali

I think a tally chart beside the till would be the best way.

I want to use a bar chart, with a different colour for each toy.



Lea

★ Who do you agree with and why?

R

1b. The school tuck shop would like to know which fruit sells best.

The children are deciding how to record each sale.



Faith

A pictogram drawing each fruit as we sell it.

A bar chart, we can put a cross each time we sell a fruit.



Tom

★ Who do you agree with and why?

R

2a. True or false?

In a pictogram, you have to count the images and that is the value of the item, 10 car images is always worth 10 cars.

Explain your answer.



PS

2b. True or false?

It is important to be able to count in 5s if you are using a tally chart.

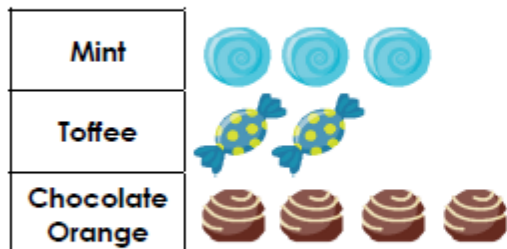
Explain your answer.



PS

3a. Mr Harrison says this pictogram is not easy to interpret.

Favourite Sweets



Find 1 way you could improve the pictogram.



R

3b. Mrs Bentley says this table is not easy to interpret.

Frequency of Exercise

Age	Daily	Weekly	
Under 10s	12	32	45
10 – 15	7	43	43
16 – 21	5	21	56
21 +	–	54	72

Find 1 way you could improve the table.



R

4a. The children are voting on the playground equipment to be bought.

Year 4 need to decide how to present the outcome.



Libby

I'm going to draw a pictogram.

I'm going to make a tally chart.



James

★ Who do you agree with and why?

R

4b. Class 4S are collecting information about how children travel to school.

Year 4 need to decide how to present the data.



Fred

I'd like to use a bar chart.

I'm planning a table with the figures in.



Tina

★ Who do you agree with and why?

R

5a. True or false?

A bar chart must have lots of different colours.

Explain your answer.



PS

5b. True or false?

Your scale should always have a figure for each 10.

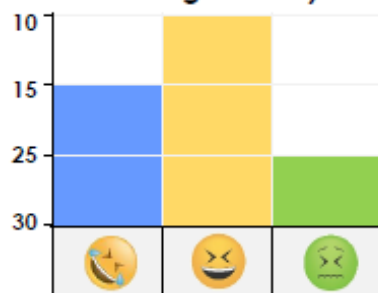
Explain your answer.



PS

6a. Miss Khan says this block graph is not easy to interpret.

How dancing makes you feel

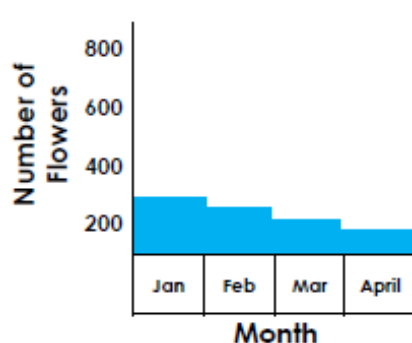


Find 2 ways you could improve the chart.



R

6b. Mr Mullaney says this bar chart is not easy to interpret.



Find 2 ways you could improve the chart.



R

Task 2:

5a. Look at this bar chart:

Distance Travelled



Fill in the blanks in the table below.

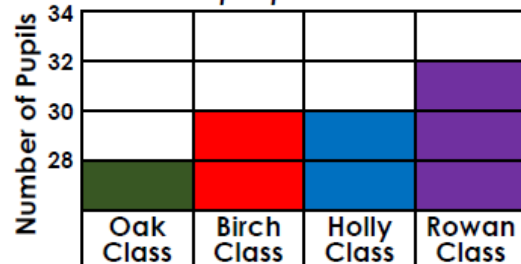
Truck 1	Truck 2	Truck 3	Truck 4
		20km	



VF

5b. Look at this block graph:

Pupils per class



Fill in the blanks in the table below.

Oak	Birch	Holly	Rowan
	30		



VF

6a. Think of two questions to ask about the information in this tally chart:

Breakfast

Cereal	
Fruit & Yoghurt	
Toast	



VF

6b. Think of two questions to ask about the information in this tally chart:

Car Colour

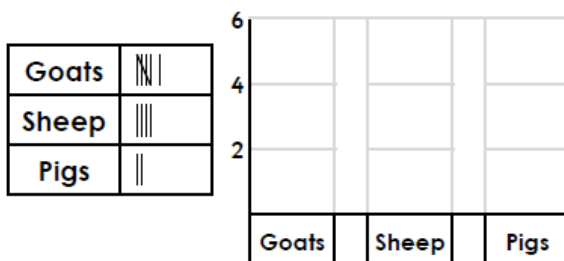
Black	
Silver	
Red	



VF

7a. Use the information in the table to create a bar chart:

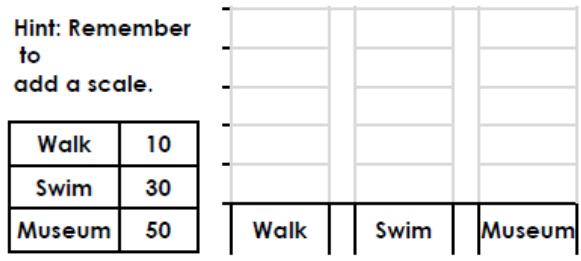
Livestock



VF

7b. Use the information in the table to create a bar chart:

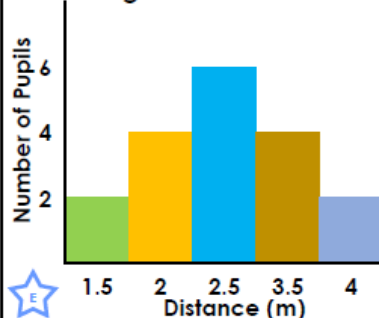
Holiday Activities



VF

8a. Look at the bar chart:

Distance Beanbag Thrown



VF

A. Which is the furthest distance most pupils could throw?

B. How many pupils threw 3.5 metres or more?

8b. Look at the table: *Vegetables Planted*

	Jan	Feb	Mar
Onions	23	32	43
Garlic	36	15	13
Cabbage	12	8	4

A. How many garlic bulbs were planted in February?

B. In which month were the most vegetables planted?



VF

9a. Look at this bar chart:
Birds in the Garden

Present the information as a tally chart.

Sparrow			

9b. Look at this bar chart:
Kitchen Veg Order

Present the information in the table.

Carrots			
50			

10a. Think of at least 3 questions to ask about the table: *Parents' Age*

	23 - 30	30 - 35	35 - 40	40+
Year One	10	12	7	-
Year Two	21	-	6	5
Year Three	6	7	9	13

10b. Think of at least 3 questions to ask about the table: *Jobs for Pocket Money*

	Y3	Y4	Y5
Tidy Room	28	30	32
Ironing	10	15	25
Vacuuming	18	23	32

11a. Use the information in the table to create a bar chart.

Money saved

Jan	Feb	Mar
£3	£9	£12

11b. Use the information in the table to create a pictogram.

Steps Taken in 1,000s

M	T	W	T	F
8	9	10	12	9

12a. Look at the bar chart:
Audience Members

A. How many people were in the audience on Wednesday?

B. Which days had more than 250 people in the audience?

12b. Look at the tally chart: *Votes Cast*

4pm - 5pm	
5pm - 6pm	
6pm - 7pm	

A. How many people voted before 5pm?

B. How else could you present this information?

Task 3:

Read the chart below and fill in the missing information.

Year 4 completed a survey, here are the results:

Favourite author	Tally	Frequency
Roald Dahl	+++	
Jacqueline Wilson		6
Francesca Simon	+++	
Eoin Colfer		2
Other	+++	

1) What question do you think the children were asked?

_____?

2) How many children were asked altogether? _____

3) Who is the most popular author? _____

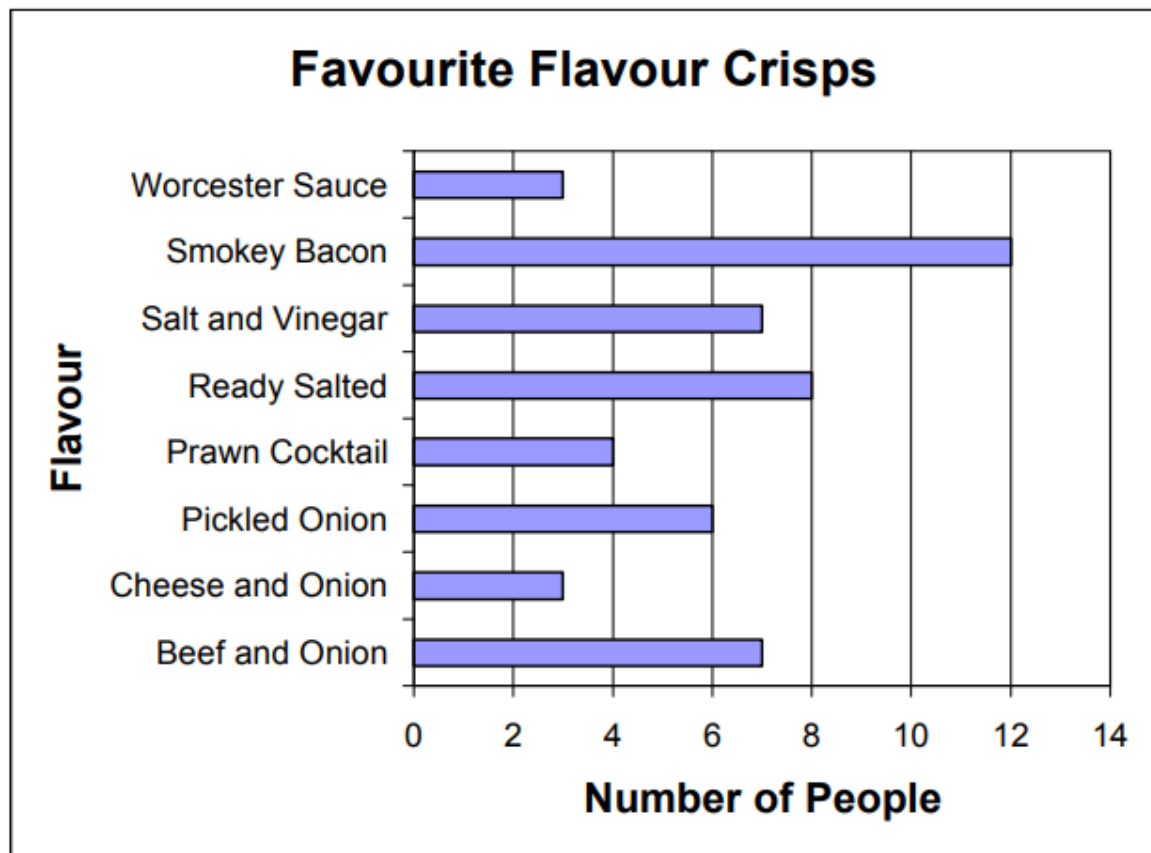
4) How many more children liked Francesca Simon than Eoin Colfer?

5) Now create a bar graph to show this information. Remember to include:

- a title for your graph (think about what question the children were asked).
- a name for the x axis (along the bottom).
- a name for the y axis (up the left side).

Task 4: Understanding Bar Charts

Bar Chart- Crisps



Questions

1. What was the second most popular flavour?
2. What was the least popular flavour?
3. Which flavour was as popular as 'Salt and Vinegar'?
4. How many people were surveyed?
5. How many more people preferred 'Beef and Onion' to 'Cheese and Onion' flavour?
6. How many less people preferred 'Worcester Sauce' to 'Smokey Bacon' flavour?
7. What percentage of the group surveyed said 'Prawn Cocktail' was their favourite?
8. What percentage of the group surveyed said 'Beef and Onion' was their favourite?

Task 5: Interpret information about a Pictogram

A Pictogram which shows the number of doughnuts sold each day

									Frequency
Monday	⊙	⊙	⌒						
Tuesday	⊙	⊙	⊙						
Wednesday	⊙	⌒							
Thursday	⊙	⊙	⊙	⊙					
Friday	⊙	⊙	⊙	⊙	⊙				
Saturday	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⌒	
Sunday									

Key



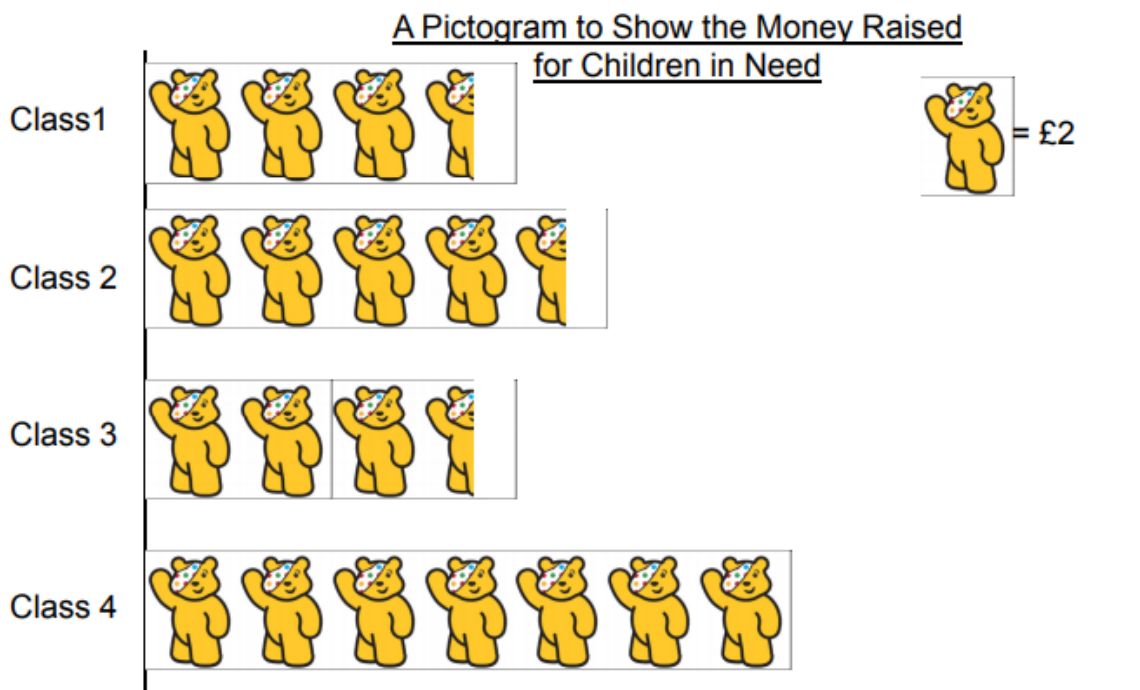
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⊙ = 100 doughnuts

Questions about the pictogram:

- (1) On which day were the least doughnuts sold? Why?
- (2) How many more doughnuts were sold on Saturday than on Thursday?
- (3) Why do you think the most doughnuts were sold on Saturday?
- (4) Write 2 questions of your own that you could ask about this graph:

Task 6: Answer questions related to a Pictogram



- 1) How much money did Class 4 raise for Children in Need?
- 2) How much money did Class 3 raise for Children in Need?
- 3) How much money did Class 2 raise for children in Need?
- 4) How much money did Class 1 raise for Children in Need?
- 5) Which Class raised the most money?
- 6) How much more money did Class 4 raise than Class 1?
- 7) Mrs Robinson added another £2 to Class 4's money. Draw on the pictogram to show this added money.
- 8) How much money was raised altogether?
- 9) Mrs McGuire was feeling very generous and decided to double each class' money. How much did each class raise after Mrs McGuire's generous gift?

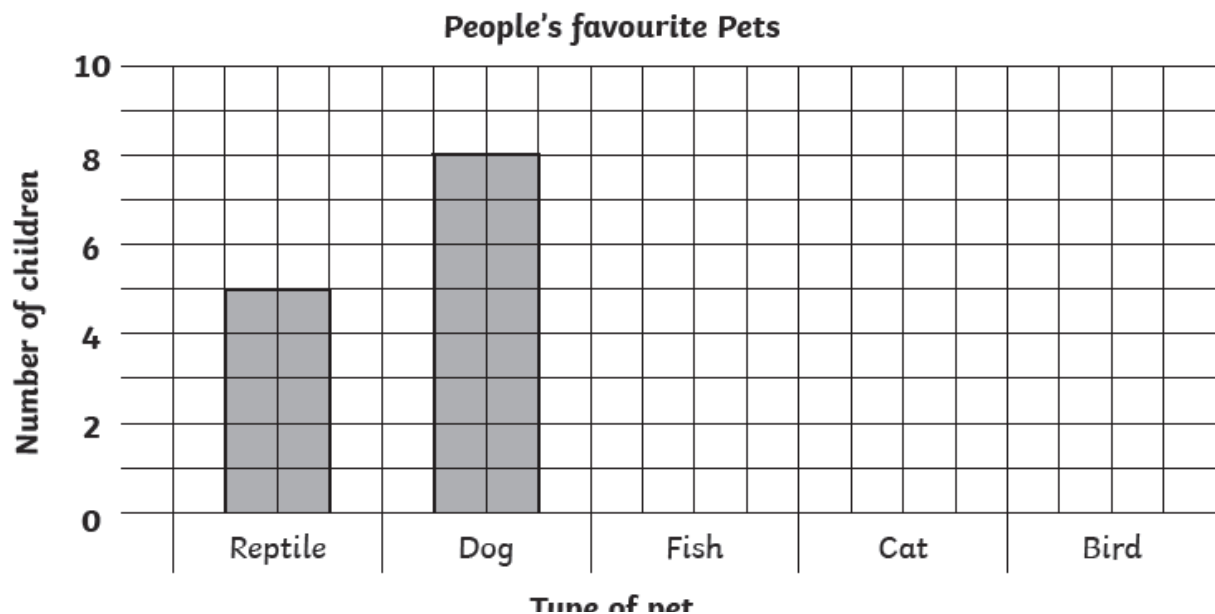
Task 7: Drawing Bar Charts

Bar Charts

I can draw bar charts.

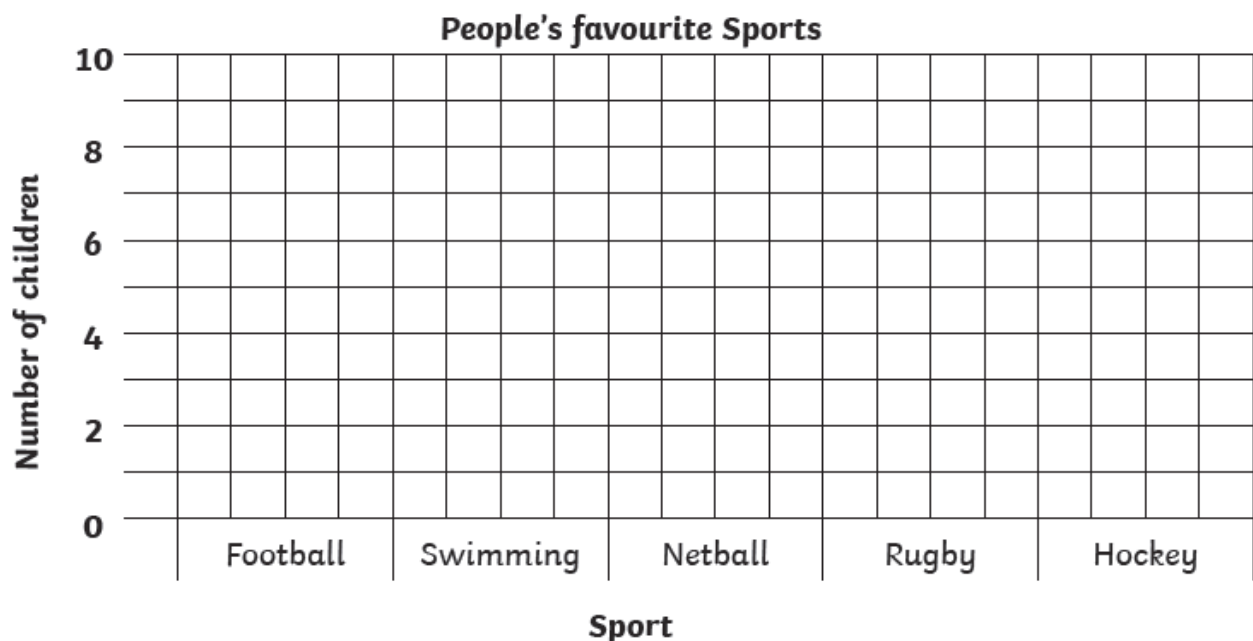
1. A group of children record their favourite pets. Here are the results.
Complete the bar chart using the information in the table.

Favourite Pet	Reptile	Dog	Fish	Cat	Bird
Number of Children	5	8	8	7	6



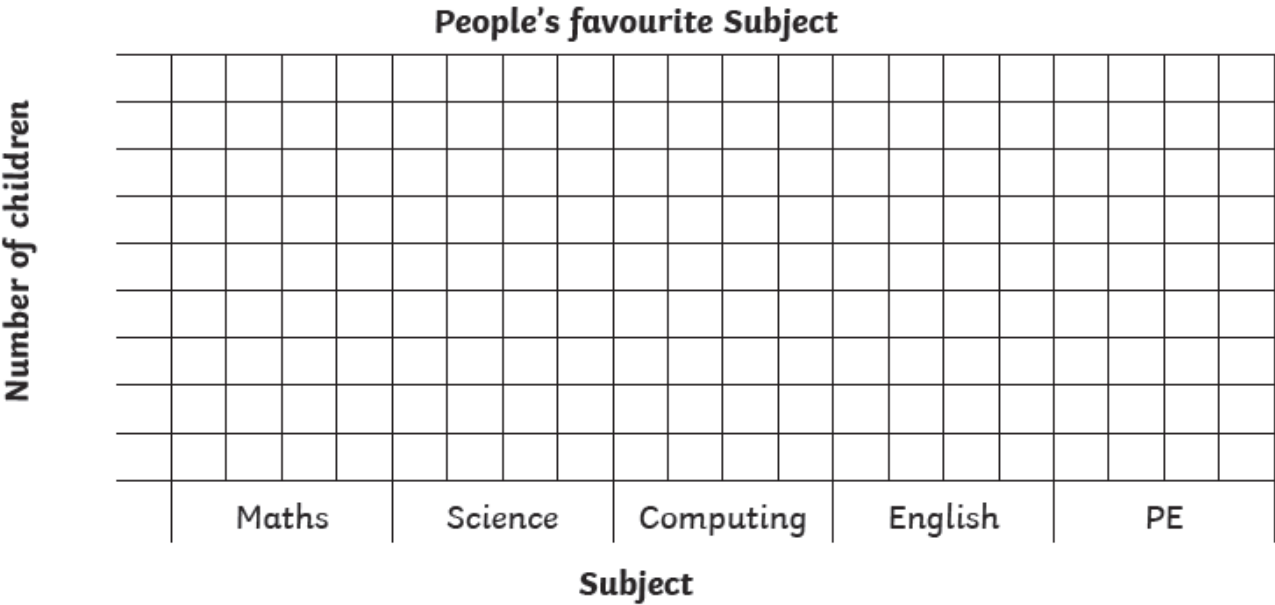
2. The favourite sport of some children is recorded. Here are the results. Complete the bar chart on the grid below from the given information.

Favourite Sport	Football	Swimming	Netball	Rugby	Hockey
Number of Children	9	10	8	5	7



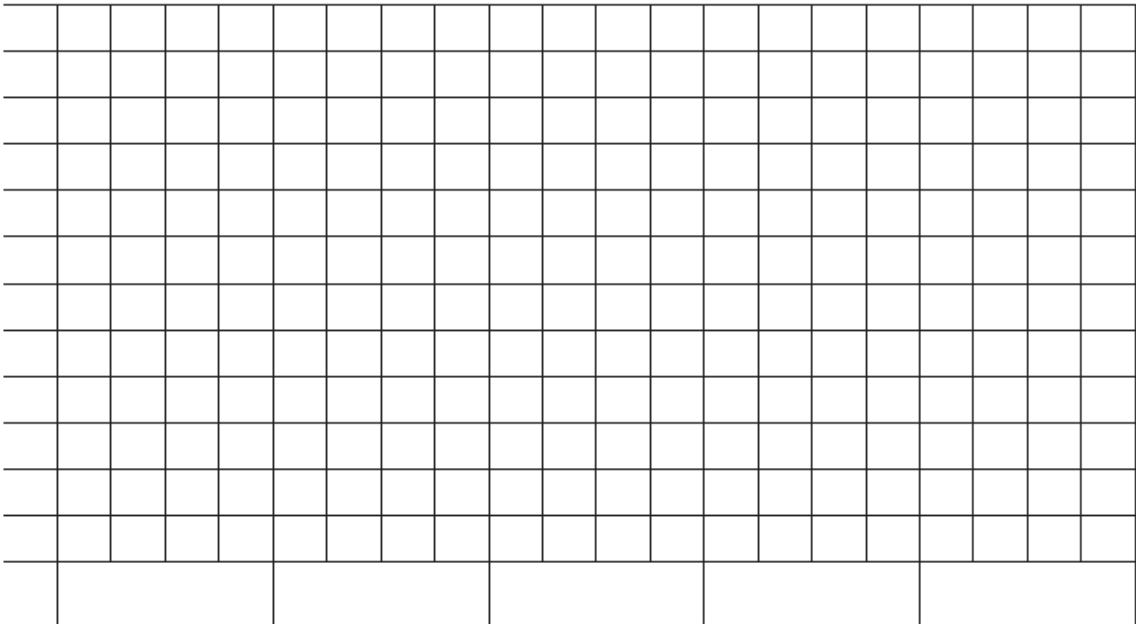
3. The favourite subject of some children is collected. Here are the results.
 Complete the bar chart on the grid below from the given information. Decide on a scale that fits the grid given.

Favourite Subject	Maths	Science	Computing	English	PE
Number of children	13	7	11	14	12



4. The favourite food of some children is collected. Here are the results.
 Complete the bar chart on the grid below from the given information.

Favourite Food	Pizza	Fish and Chips	Curry	Spaghetti Bolognese	Chilli
Number of Children	21	7	11	14	12



5. Conduct your own research to a question and present your results in a bar chart.

