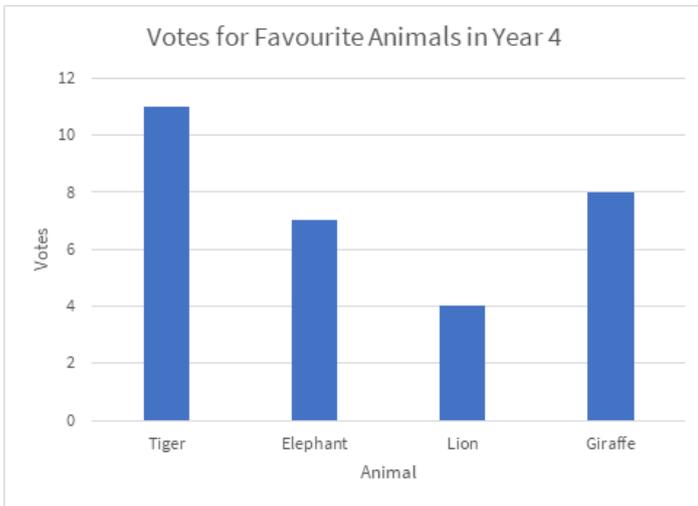
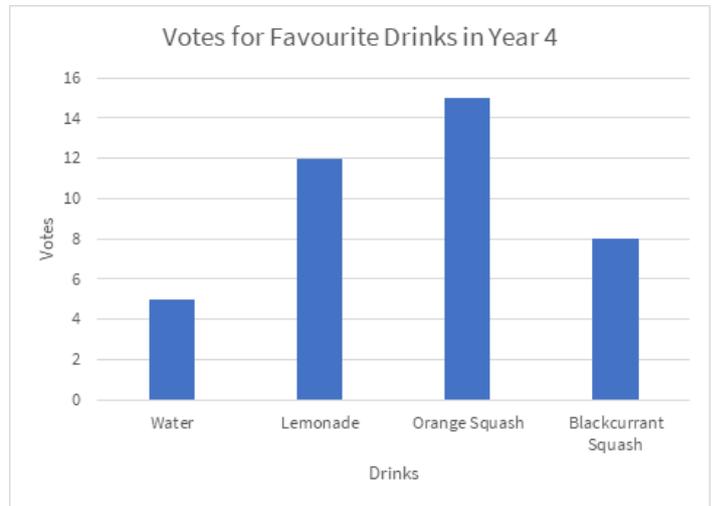


# Charts

Bar Chart a



Bar Chart b



Pictogram c

Number of pets owned by children in Year 4

Pets	Total
Rabbit	
Cat	
Dog	
Guinea Pig	
Other	

Key:  
 = 2 children

Pictogram d

Favourite Sport

Pets	Total
Football	
Tennis	
Rugby	
Netball	
Other	

Key:  
 = 4 votes

## Arithmetic

1.  $169 + 78$

2.  $\frac{7}{9} - \frac{3}{9}$

3.  $28 \times 7$

4.  $\frac{3}{6} + \frac{1}{6}$

## Practice: Interpret Charts

5. Recap: Explain how to read bar chart a.



6. Look at bar chart a.

Which is the most and least popular animal?

7. Imagine 5 more children voted for 'lion' as their favourite animal.

Add to the bar on bar chart a showing this.

8. Look at bar chart b.

How many children chose lemonade?

How many children chose orange squash?

9. Look at bar chart b.

What was the most popular drink choice?

Which drink received 8 votes?

10. Look at bar chart b. As the votes for 'water' is not on a horizontal line, explain how you can calculate the total votes.



11. Look at pictogram c.

How many children owned each pet?

12. Look at pictogram d.

4 more children voted tennis. Show this on the pictogram.

13. Mario is looking at pictogram d. He says it shows 7 people voted for football. Is he right? Explain.



**Challenge** 14. Write 3 questions and answers about bar chart a.



You might want to talk to an adult



Spot the mistake

# Answers

Q no.	Question	Answer
1	$169 + 78$	247
2	$\frac{7}{9} - \frac{3}{9}$	$\frac{4}{9}$
3	$28 \times 7$	196
4	$\frac{3}{6} = \frac{1}{6}$	$\frac{4}{6}$
5	Explain how to read bar chart a.	In bar chart a, the x-axis shows the type of animal being voted for. The y-axis shows the number of votes each animal has. To find the total votes for each animal, find the bar representing the animal along the x-axis, move up the bar to the end and compare the end to the y-axis. The top of the bar shows the total votes for the animal.
6	A - Which is the most and least popular animal?	Most – tiger, least - lion
7	Add to the bar on bar chart a showing this.	The total for lion should have increased from 4 to 9.
8	B - How many children chose a. lemonade, b. orange squash?	Lemonade – 12, orange squash – 15
9	B - What was the most popular drink choice? Which drink received 8 votes?	Orange squash, blackcurrant squash
10	B - As the votes for 'water' is not on a horizontal line, explain how you can calculate the total votes.	It is important that pupils understand how to read a scale. This scale increases in 2s. As the votes for water are between 4 and 6, the total is between 4 and 6 (5).
11	C - How many children owned each pet?	Rabbit – 5, cat – 8, dog – 11, guinea pig – 7, other - 9
12	D - 4 more children voted tennis. Show this on the pictogram.	3rd circle completed and another half circle drawn
13	Is he right? Explain.	Mario is incorrect. He has used the key for pictogram c, not d. Each circle in pictogram d is equal to 4 votes, not 2. Football actually had 14 votes.
14	Write 3 questions and answers about bar chart a.	Answers will vary. Example answers: How many people voted in total? 30 people Which animals had a difference of 1 vote? Elephant and giraffe What were the total votes for tigers and lions? 15 votes.