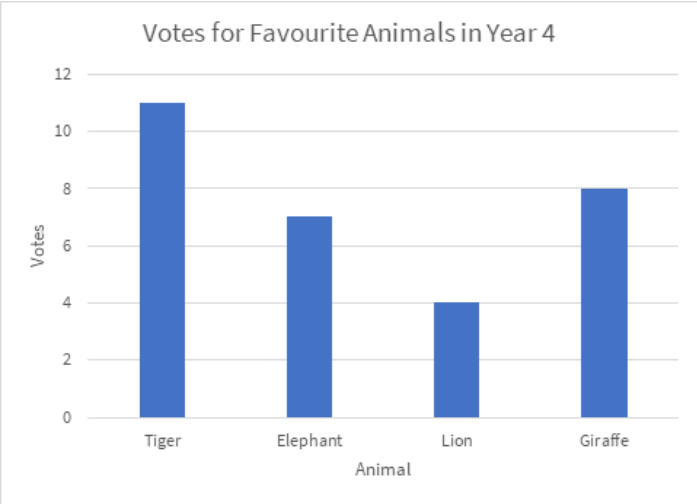
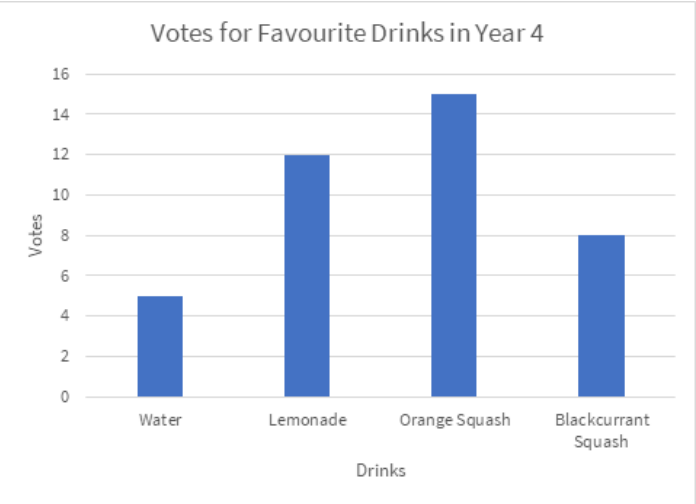
# Charts

## 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



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## Arithmetic

**1.** 9,604 - 821

**2.** 11.5 – 2.4

**3.** 803 + 100

**4.** $\frac{2}{5}$ of 40

## Practice: Comparison, Sum and Difference

**5.** Recap: What operation would you use for these words:
sum, difference, altogether, total, how many more

**6.** Look at bar chart a.
How many votes were there altogether?
How many votes were there for lions and giraffes?

**7.** Look at bar chart a.
How many more children voted tigers than elephants? How many fewer children voted giraffes than tigers?

**8.** Look at bar chart b.
Which two drinks were voted for by 27 children altogether? How many children voted for water and lemonade?

**9.** Look at bar chart b. What's the difference between votes for orange squash and water? How many more children liked lemonade than blackcurrant squash?

**10.** Explain why it is important to have a key with a pictogram.

**11.** Look at pictogram c.
$\frac{1}{8}$ of the children have which pet?

**12.** Look at pictogram d.
How many children voted altogether?

**13.** Conall says that in bar chart a, the difference between tigers and lions is 3 votes. Is this right? Explain.

Challenge

**14.** The answer is 4.
Using any of the bar charts or pictograms, what could the question be?
Give three examples.

**You might want to talk to an adult**

**Spot the mistake**



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# Answers

| Q no. | Question | Answer |
|---|---|---|
| 1 | 9,604 - 821 | 8,783 |
| 2 | 11.5 – 2.4 | 9.1 |
| 3 | 803 + 100 | 903 |
| 4 | $\frac{2}{5}$ of 40 | 16 |
| 5 | What operation would you use for these words: sum, difference, altogether, total, how many more | Addition: sum, altogether, total<br>Subtraction: difference, how many more |
| 6 | Questions about bar chart a. | 30, 12 |
| 7 | Questions about bar chart a. | 4, 3 |
| 8 | Questions about bar chart b. | Lemonade and orange squash, 17 |
| 9 | Questions about bar chart b. | 10, 4 |
| 10 | Explain why it is important to have a key with a pictogram. | The key on a pictogram shows the value for the symbols used in the pictogram. Without the key, it is impossible to know the total each symbol represents. |
| 11 | Questions about pictogram c. | Rabbit (5 out of 40 children) |
| 12 | Questions about pictogram d. | 60 |
| 13 | Is this right? Explain. | Conall is incorrect. He has not used the scale and has counted three horizontal lines. The actual difference between tigers and lions is 7 votes. |
| 14 | The answer is 4. Using any of the bar charts or pictograms, what could the question be? Give three examples. | Answers will vary.<br>Example answers:<br>Bar chart a - how many votes for lions were there?<br>Bar chart b - what is the difference between votes for blackcurrant squash and lemonade?<br>Pictogram c - If one fewer child had a rabbits, how many children would have rabbits?<br>Pictogram d - How many votes does each circle represent? |



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