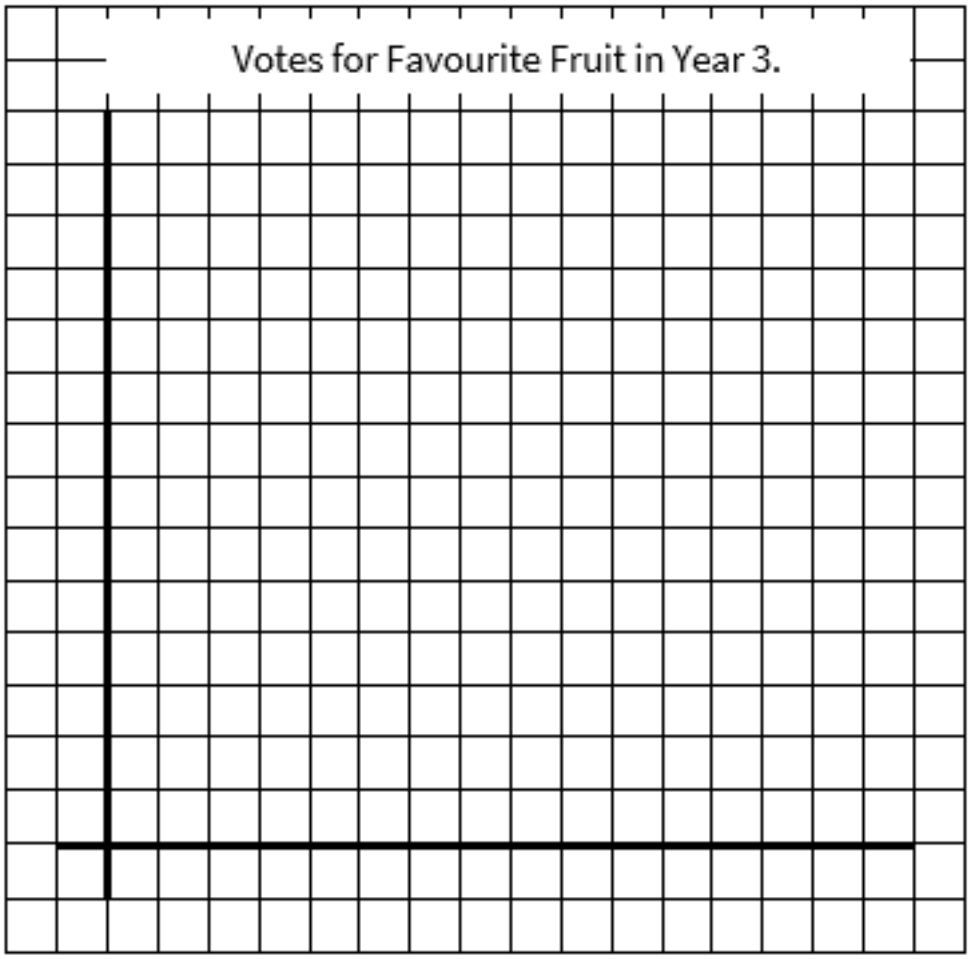
Bar Charts and Table

Bar Chart a

Table b

Favourite Fruit	Votes
Apple	5
Banana	11
Pear	2
Grapes	7
Other	15

Bar Chart b



Arithmetic

1. 18 ÷ 3

2. 525 - 60

3. 10 ÷ 2

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

Practice: Bar Charts

5. Recap: Explain what bar chart a shows.

6. Look at the bar chart a.

Draw a tally chart to show this information.

7. a. How many children have the smallest shoe size? b. How many children have a shoe size bigger than size 2? c. How many more children have size 2 feet than size 3?

8. 6 more children join year 3. 4 have size 2.5 feet and 2 have size 3 feet. Change the bar chart to reflect this.

9. Look at the table b.

Draw a bar chart using bar chart b to show the information.

10. Did you increase in ones, twos, fives, tens or another number for your scale? Explain your choice.

11. a. Which was the least popular fruit? b. How many people voted for bananas? c. Which fruit received 5 votes?

12. a. How many votes were there for grapes and pear altogether? b. How many more people voted for bananas than apples?

13. In bar chart a, 1.5 children have size 10 feet. Explain the mistake.

Challenge

14. What is the same and what is different about bar chart a and bar chart b?

You might want to talk to an adult

Spot the mistake

Answers

Q no.	Question	Answer
1	18 ÷ 3	6
2	525 - 60	465
3	10 ÷ 2	5
4	$\frac{1}{3} + \frac{1}{3}$	$\frac{2}{3}$
5	Explain what bar chart a shows.	Bar chart a shows the different shoe sizes of children in Year 3. The sizes range from 1.5 to 3.5. 40 children participated in this information gathering. The bar chart scale uses increments of 2.
6	Draw a tally chart to show this information.	Correctly drawn tally chart.
7	Questions about bar chart a.	a. 10, b. 15, c. 10
8	Change the bar to reflect the information.	The bar chart should be adapted to reflect this information.
9	Draw a bar chart using bar chart b to show the information.	Correctly drawn bar chart.
10	Did you increase in ones, twos, fives, tens or another number for your scale? Explain your choice.	Answers will vary. Most pupils should have identified that on the given grid, they could not easily use increments of one (they would not be able to show the 15 'other' votes). Accept answers that justify their decision and demonstrate a consideration of the most votes there were.
11	Questions about bar chart b.	a. Pear, b. 11, c. apple
12	Questions about bar chart b.	a. 9, b. 6
13	In bar chart a, 1.5 children have size 10 feet. Explain the mistake.	This demonstrates a misunderstanding of how to read a bar chart. As the information on the x-axis contains numbers, this has been confused as identifying the total votes for that shoe size. The information on the y-axis has then been taken to be the shoe size.
14	What is the same and what is different about bar chart a and bar chart b?	Answers will vary. Accept answers that accurately reflect the premade bar chart and the bar chart created by the pupils. Example answers: Both bar charts show 40 votes. Both bar charts increase in twos (this will depend on the scale pupils have used).