Statistics - topic test

Name: _____ Date: _____

12 questions | 22 marks | 30 minutes

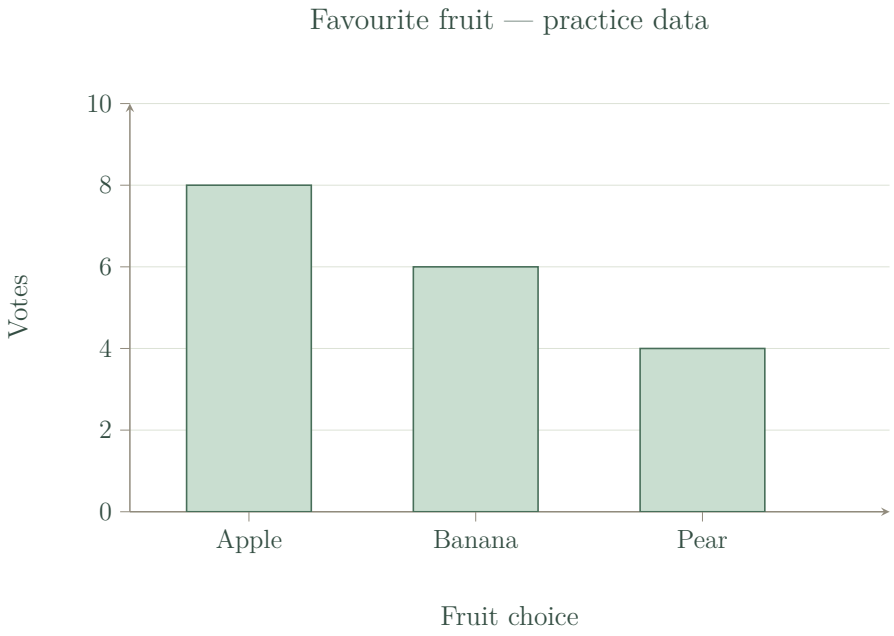
Begin with familiar ideas, then explain and apply your understanding. Show your working.

No calculator needed.

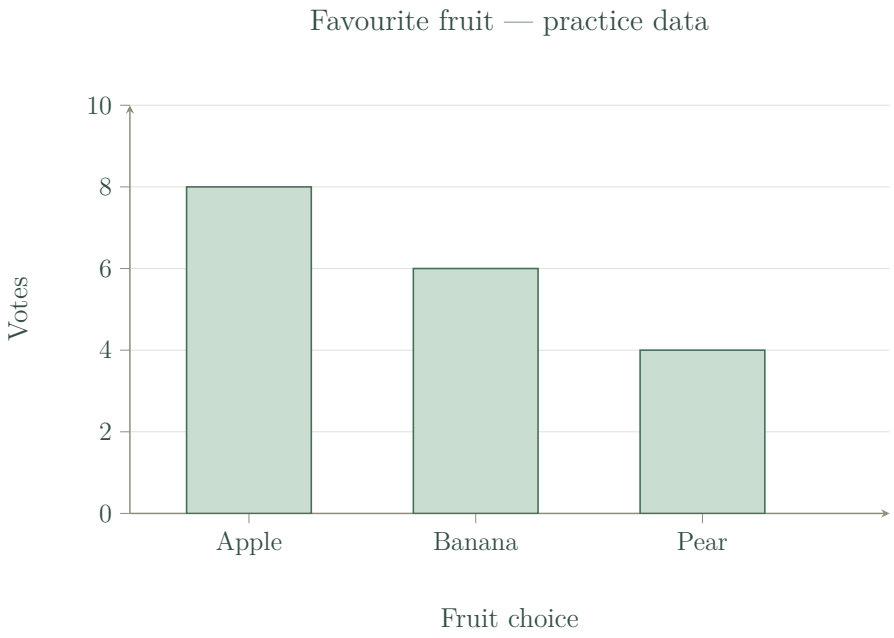
1. A key says one symbol represents 2 books. How many books do 3 symbols show?
[1 mark]

2. A key says one symbol represents 4 votes. How many symbols show 12 votes?
[1 mark]

3. Read the Pear count from the supplied graph. [1 mark]



4. How many more votes did Apple receive than Banana in the supplied graph? [2 marks]



5. Record these responses as frequencies: red, blue, red, green, blue, red. [2 marks]

6. Fifteen people each give one response, but a table totals 16. What should the collector do? [2 marks]

7. Use the supplied reading table to find the total children. [2 marks]

Practice reading survey

Books read	Number of children
0	2
1	4
2	6
3	3

8. Which books-read value is most common in the supplied table? [1 mark]

Practice reading survey

Books read	Number of children
0	2
1	4
2	6
3	3

9. Draw a column graph from the supplied reading table. Label it clearly. [3 marks]

Practice reading survey

Books read	Number of children
0	2
1	4
2	6
3	3

10. Why is “Everyone likes football best” not justified by a survey of only the football team? [2 marks]

11. Compare lists 1, 2, 2, 2, 3 and 0, 1, 2, 3, 4. Which is more concentrated near 2? [2 marks]

12. A class asks 16 children to choose one favourite game. The counts are Chasey 7, Skipping 5 and Handball 4. [3 marks]

(a) Write a conclusion supported by these counts. [2 marks]

(b) Give one limit on what the conclusion can tell us. [1 mark]