

National 4 Homework Exercise 9 Graphs, Charts and Tables

1. Complete all calculations below **without a calculator**. Show all working!

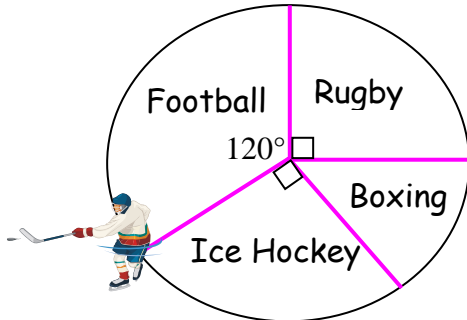
(a) $\frac{8}{9}$ of £32.40

(b) $39.1 \div 5$

(c) 84×36

[4]

2. In a survey, people were asked to indicate which one of five sports they liked best. The information is given in a pie chart.



(a) For what fraction of people liked Ice Hockey?

(b) For what fraction of people liked Boxing?

(c) 300 people took part in the survey. How many people liked Football?

[5]

3. A random sample is taken from a bottle bank. The colour of the glass is noted.

brown	white	white	brown	white	white
green	white	other	green	other	white
brown	green	other	white	brown	green
green	white	other	brown	brown	green
white	green	green	white	white	green
green	green	green	green	green	white



(a) Construct a frequency table to help you organise the data.

(b) What is the most common colour noted?

(c) Construct a bar graph illustrating the sample.

[9]

4. Mrs. Baner buys ten packets of chocolate coins. She finds each packet contains the following numbers of coins:-

50, 52, 54, 52, 55, 51, 53, 50, 54, 54

(a) Calculate the mean number of coins.

(b) Should Mrs. Baner complain?

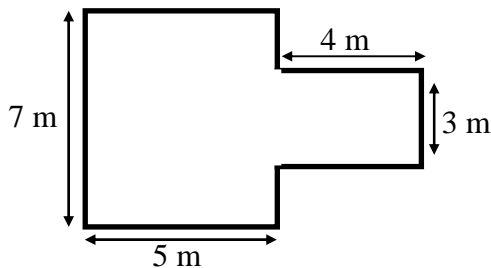
(c) Find the median.

(d) What is the mode and range?



[8]

5. The diagram below shows a garden made from two rectangles.



Mrs. Bonaration wants to place a brick border made from paving around her garden. She has bought a 30 m of brick paving.

Has Mrs. Bonaration bought enough brick paving? *Explain your answer.*

[4]