

AQA

- 1) The data you have received is in the form *name (frequency).* The data is as follows: dog (8); cat (7); guinea-pig (3); hamster (2); fish (5); snake (1); bird (1).
 - i) Give a title to these variables that encompasses them all [1]
 - ii) hat type of data is this, such that you cannot find a mean for it? [1]
- 2) Name a type of graph used to represent:
 - i) quantitative dataii) qualitative data: discrete[1]
 - iii) qualitative data: continuous [1]
- 3) You have a frequency table but the class widths are not consistent, what would be the way [2] of displaying this graphically and why?
- 4) The heights of miniature figures are given in *mm*.
 1, 5, 7, 14, 19, 21, 23, 25, 27, 31, 32, 35, 36, 37, 38, 40, 42, 47, 48, 50 [4]
 Draw a histogram, made of 5 groups, representing the distribution of heights.
- 5) The following table, used to make a histogram, has been partially filled completed with the data for amount of money, in pence, 94 children spend on sweets every day. Complete the [6] table by calculating the values where the letter *x* is.

Amount (p)	Frequency	Frequency Density
0	10	x
50 < <i>p</i> < 75	x	0.88
75	x	x
105	22	x
200	25	x

There is no requirement to draw the histogram.

6) The time 1000 lightbulbs last has been recorded in the table shown and used to produce a [6] histogram. The standard deviation of the data is 100 hours. Using your knowledge of histograms and probability distributions estimate the probability of a bulb lasting less than 2100 hours.

