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| **Statistics and Probability Revision** | | | | | **3** |
| **(a)** | | **(b)** | | | |
| The frequency table shows the number of different sizes of shoes sold across a week. | | Chloe asked a number of students to choose their favourite fruit. The pie chart (not drawn to scale) shows this information. | | | |
| |  |  | | --- | --- | | Shoe Size | Frequency | | 4 | 3 | | 5 | 11 | | 6 | 8 | | 7 | 5 | | 8 | 9 | | 9 | 4 | | (i) Write down the modal shoe size.  (ii) Work out the total number of pairs of shoes sold.  (iii) Calculate the mean shoe size. |  | | (i) 18 students chose orange as their favourite fruit. How many students chose banana?  (ii) 27 students chose grapes. Work out the size of the pie chart angle for grapes. | |
| **(c)** | | **(d)** | | | |
| The heights of 80 plants are measured and recorded in a grouped frequency table. | | 40 children were asked whether they have a brother(B) or sister(S). Of the 40 children, 11 have both a brother and a sister, 8 have **only** a sister, and 15 have neither a brother or a sister. | | | |
| |  |  | | --- | --- | | Height (cm) | Frequency | |  |  | |  |  | |  |  | |  |  | |  |  |   (i) Write down the modal class.  (ii) Calculate an estimate for the mean height. | |
| (i) Complete the Venn diagram. | (ii) A child is chosen at random. Find the probability that the child chosen has a brother.  (iii) Find | | |