

# Kit's Forest Data Detective Challenge

*Learning objective: To collect, organize, and interpret data using a frequency table and bar chart.*

Kit the fox is helping the Forest Ranger count the different types of fruit found on the orchard floor. Look at the tally chart below and complete the tasks. A tally chart uses lines to count items, with every fifth line being a diagonal slash (|||| = 5).

*Word bank: Data · Frequency · Tally · Bar Chart · Total · Information*

**1. Kit found: Apples (|||| ||), Pears (||||), Plums (|||| |), and Cherries (||||). Calculate the frequency (total) for each fruit and write them in a table. (4 marks)**

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**2. Which fruit was the most popular in the orchard? (1 mark)**

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**3. How many pieces of fruit did Kit find in total? Show your calculation. (2 marks)**

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**4. If Kit found 3 more Pears, what would the new frequency for Pears be? (1 mark)**

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**5. Why is it important to use a tally when collecting data instead of just counting in your head? (2 marks)**

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**Draw:** Draw a bar chart on squared paper using the data from Kit's tally chart. Remember to label the bottom axis with the fruit names and the side axis with the number of pieces found.



*Extension challenge: Kit wants to know the total cost if each apple costs 20p. If Kit found 7 apples, calculate the total price in £ and pence. Then, invent your own data set about the number of birds seen in the trees and create a tally chart for it.*