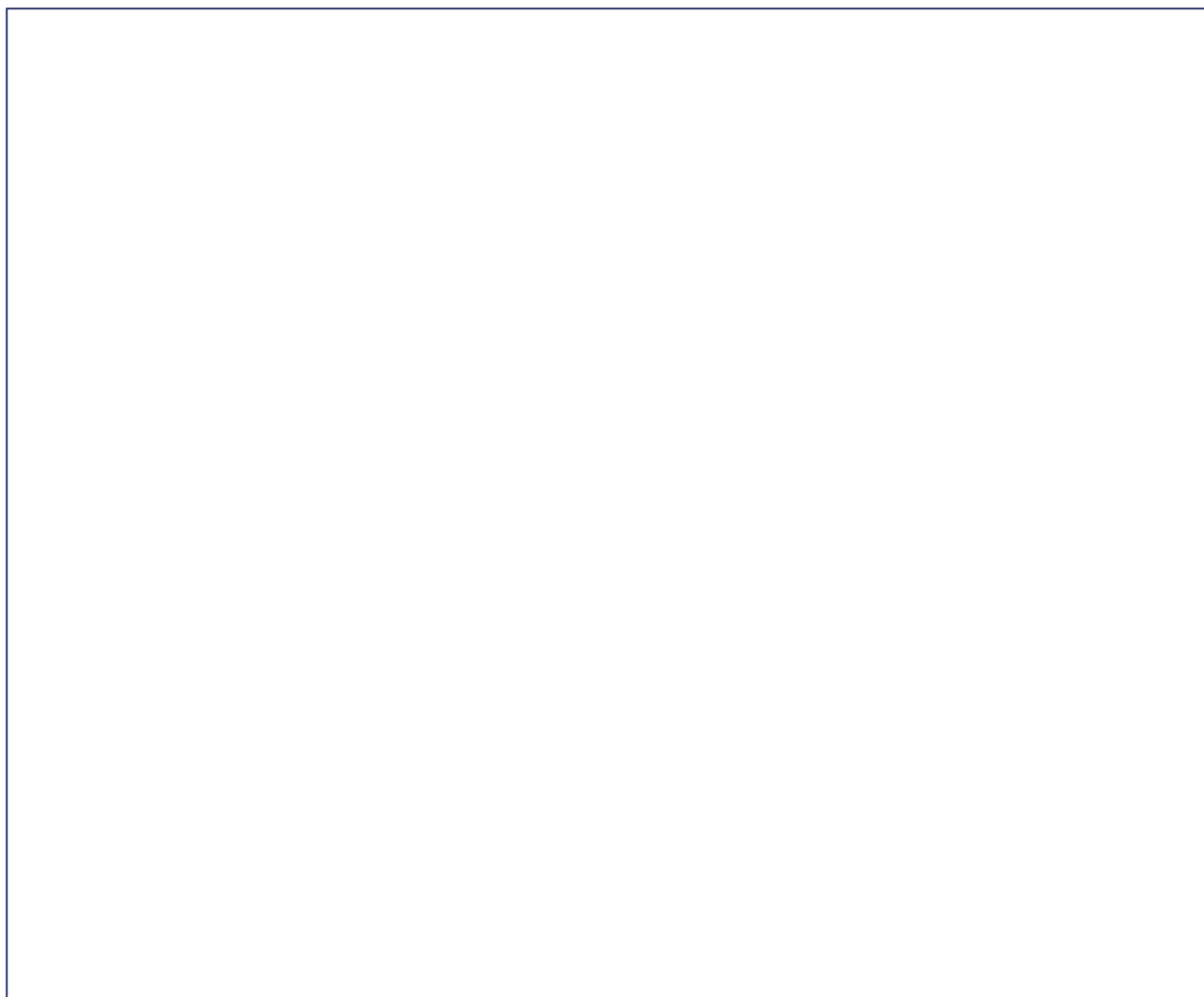


Kit's Computing Data Discovery

Learning objective: To collect, represent, and interpret data using a tally chart and pictograms.

Kit the fox is organising his woodland library. He has counted his favourite types of books. Use the data provided to complete the drawing activity and answer the questions below. Remember to ensure your data representation is clear and accurate.

Draw: Draw a large, clear Pictogram on the lower half of the page to display Kit's book collection. Use a simple, clean style. Include a vertical axis labelled 'Number of Books' and a horizontal axis for 'Book Genre'. Draw a small 'Key' box in the corner showing that one icon (perhaps a small book shape) represents 2 books. Ensure the bars or rows for Adventure, Science, Poetry, and Mystery are correctly scaled.



Label words: Data · Tally · Frequency · Pictogram · Key · Axis · Category

Steps:

1. Using Kit's data, create a tally chart below. Remember to group your tallies into sets of five.
2. Explain why Kit must include a 'Key' when drawing his pictogram. What might happen if he forgets to include one?
3. If Kit adds 3 more Poetry books to his collection, how would this change the total frequency for that category? Justify your answer.

4. Compare and contrast the benefits of using a tally chart versus a pictogram. Which is easier to read at a glance?
5. Calculate the total number of books in Kit's library. Show your addition.
6. If Kit decides to represent each symbol in his pictogram as 2 books, how many symbols will he need for the Mystery novels?