

Description:

Using a prepared Excel sheet to sort data in order to answer questions efficiently.

Numeracy Strategy reference:

Year 5
Handling data
Organising and using data
pg114

Task analysis:

Pupils are required to:

- Sort data within a prepared Excel sheet
- Use the rearranged data to answer questions.

Learning Objectives:

Solve a problem by collecting, organizing, representing, extracting and interpreting data in tables, graphs and charts.

Suggested activities:

Oral work and mental calculation:

Ascending \geq \geq /descending \leq \leq order for time, length and number.

Examples

- Given a number e.g. 4760, which symbols should go either side?

4780 ? 4760 ? 4740

- What number is halfway between 27400 and 28000?
- A journey takes about 3 hours give or take 5 minutes. Between how long is this?
- A distance is about 2km give or take 100m. How far is it?

Teaching activity:

Use prepared Excel spreadsheet showing the lengths of rivers around the world. Transfer the data onto a prepared tally sheet. Classify rivers into a range of lengths and according to location.

Use the tally chart to answer questions about the location of famous rivers.

Plenary:

Discuss how tally charts were made, how easy was it to check if they were accurate – how was this done, using totals.

Pupils could be asked to compare answering a question from the data sheet or from the tally chart – which is quickest/easiest. This could be done by dividing the class in half – half using the data sheet, half using the tally.

Resources:

River lengths printable activity sheets. River lengths Excel spreadsheet.

Learning outcomes:

Pupils should be able to:

- Use an Excel spreadsheet to sort data by different criteria.
- Analyse and interpret the sorted data to answer questions.

Extension activities:

Using the provided data sheet of Height of Mountains around the World and the prepared tally sheet, classify the mountains into a range of heights according to location. The tally charts should then be used to prepare questions for partners/other groups to answer.