Year 6 | Statistics

Data types, distributions and investigations

Learn and practise | Free preview

A sample from this topic. The complete topic collection contains three different resources and worked solutions.

Show your thinking using words, working or a labelled drawing. Use the explanations and example first.

What you will practise

• Data types, distributions and investigations

• Explain and check an answer with an appropriate representation.

Useful starting skills: Use objects, drawings or a number line to explain a simple idea.

Begin a statistical investigation with a clear question and a defined group. Choose a consistent collection method, and check that responses are recorded accurately.

Use a display that suits the type of data. Label categories, units and scales, then describe what the data shows. A conclusion should refer to the group actually investigated and acknowledge information not collected.

Worked example

A class records 5 votes for A and 8 for B. Compare the results.

The total is 5+8=13.

B has 8-5=3 more votes. This describes this class only.

Answer: B has 3 more votes; 13 votes in total.

Try it yourself

Name: _____ Date: _____

1. Classify favourite colour, satisfaction rating, number of pets, and measured height.

2. Data A are 2, 3, 3, 4, 8. Data B are 1, 3, 3, 5, 9. Compare mode and range.

Answers and explanations

Check the method as well as the final answer. An alternative correct method is also valid.

1. Nominal categorical; ordinal categorical; discrete numerical; continuous numerical

Labels have no inherent order; ratings do; counts are whole-number observations; measurement can take values between whole numbers.

2. Both mode 3; range A=6, range B=8

Find the most frequent value; subtract minimum from maximum for each range.

Curriculum reference: VC2M6ST01; VC2M6ST03

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