Data displays and investigations

Learn and practise | Free preview

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

Read the explanation and worked example. Show your working; use a calculator only where asked.

What you will practise

• Summarise numerical data and choose a display for an investigation.

• Explain a method and check the reasonableness of a result.

Useful starting skills: Use the prerequisite operations and representations shown in the worked example.

The mean is sum divided by count; the median is the middle of an ordered list; the mode is the most frequent value; the range is maximum minus minimum.

Dot plots and stem-and-leaf plots preserve individual values. Describe shape, centre and spread in context, including unusual values. A fair investigation starts with a clear question and a suitable data collection method.

Worked example

Summarise the data 2,4,4,5,10.

Mean=25/5=5; ordered middle is 4.

Mode 4; range 10-2=8.

Answer: Mean 5, median 4, mode 4, range 8

Try it yourself

Name: _____ Date: _____

1. Find mean and median of 3,5,6,6,10.

2. Find mode and range of 8,2,8,5,11.

Answers and explanations

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

1. Mean 6; median 6

Sum 30 divided by 5; middle value 6.

2. Mode 8; range 9

11-2=9.

Curriculum reference: VC2M7ST01; VC2M7ST02; VC2M7ST03

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