Data types/validation

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

1. Classify favourite sandwich filling as category data or number data. [1 mark]

The answer names a kind of filling.

Answer: Category data.

2. Classify the length of a pencil in centimetres. [1 mark]

Length is a measurement with a unit.

Answer: Number data.

3. Classify a football player's shirt number. [1 mark]

It identifies a player; it does not measure the player.

Answer: Category data.

4. A survey has 18 answers. Category counts are 6, 5 and 8. What needs checking? [2 marks]

$6 + 5 + 8 = 19$.

Check for an extra or double-counted response; do not remove one without evidence.

Answer: The counts total 19, one more than the 18 answers.

5. Reading times are recorded as 4 hours, 5 hours and 300 minutes. Explain why the units matter. [2 marks]

There are 60 minutes in an hour.

$300 \div 60 = 5$.

Answer: Use one agreed unit before comparing; 300 minutes equals 5 hours.

6. A data sheet has a blank height. Should it be entered as zero? Explain. [2 marks]

Check or remeasure if possible.

If it cannot be obtained, label the measurement missing.

Answer: No. A missing measurement is not a measured height of zero.