

Solutions

2.1

: weighing returned plate waste.: optional interviews about reasons for leaving food.

2.2

: 6.0 kg.: $6.0/30 = 0.20$ kg per served meal. Units and denominator must match the recorded group.

2.3

each: volunteer recruitment may select particular views; only eight agreed and four declined; no whole-school sampling frame or representative selection. Accept the fact that mentioning a reason measures a report rather than all pupils' needs as one distinct limit.

2.4

: remove careless/far too much/forced agreement.: a neutral focused question, e.g. "What, if anything, led you to leave food today?": open optional response or balanced choices including no food left/other/prefer not to answer. Do not force a stated cause.

3.1

each: 6.0 kg is observed, not 60 kg for the school/week; seven of eight is among interview volunteers, not all school pupils; overlapping reasons do not form mutually exclusive groups; menu/timing differences or absent intervention prevent causal attribution; using two methods does not prove a cause; refusal must be respected without public pressure.

3.2

Local analytic rubric, 8 ×: state observed total; use 30-meal denominator; bound 0.20 kg average; identify volunteered reasons; limit sample reach; avoid causal proof; respect optional participation; propose neutral approved next step; coherent truthful 80–110 word response. Example: "The three observed groups returned a total of 6.0 kilograms of plate waste from thirty served meals, giving 0.20 kilograms per served meal. This average describes only the observed lunches. Menus differed, and no whole-school total was measured. Seven of eight interview volunteers mentioned portion size; three mentioned lunch time, with overlap allowed. Their reports suggest questions to investigate, not proven causes or every student's needs. We could extend observation with the same weighing method and neutral optional questions after approval. Participation must remain voluntary, and students who decline should not face pressure or public identification."