

Solutions

Each answer shows the steps, then the **result**.

2.1

- all units are assigned to the treatments entirely at random

2.2

- to reduce variability from a known factor, so treatment effects are clearer

2.3

- two similar units (or the same unit twice) form each pair, split between treatments

3.1 B

3.2 B

3.3

(a)

- a randomized block design

(b)

- to reduce variability caused by age

(c)

- a matched-pairs design