

Solutions

2.1 There are three listed foods under each of two drinks: six listed outcomes.

2.2 Remove one of the six outcomes: five remain.

2.3 List 123,132,213,231,312,321: six codes.

3.1 False. If one of the 3×4 pairs is forbidden, only 11 outcomes remain. The product rule needs all combinations to be allowed, or an adjusted count by cases.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.