

Young children are learning to read using two different reading schemes, A and B . The standards achieved are measured against the national average standard achieved and classified as above average, average or below average. For two randomly chosen groups of young children, the numbers in each category are shown in the table.

| | Standard achieved | | |
|------------|-------------------|---------|---------------|
| | Above average | Average | Below average |
| Scheme A | 31 | 35 | 22 |
| Scheme B | 19 | 50 | 43 |

Test at the 5% significance level whether standard achieved is independent of the reading scheme used.

[6]