

## Solutions

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

### 2.1

- state hypotheses and check conditions; compute expected counts and  $\chi^2$ ; find the p-value; compare to  $\alpha$  and conclude

### 2.2

- the two variables are associated (not independent)

### 2.3

- reject  $H_0$  ( $0.02 < 0.05$ )

### 3.1 B

### 3.2 B

### 3.3

(a)

- reject  $H_0$

(b)

- yes, they are associated

(c)

- there is convincing evidence of an association between the two variables