

Conditional Probability Changes the Reference Group: Apply and Create



Use the matching sheet ID when checking answers.

Use what you learned to explain, construct or apply an idea.

1. Why are the last two fractions different?

Look for:

- Identifies both denominators.

One possible response: They condition on different groups: flagged parts versus defective parts.

2. Does a flag guarantee a defect in this invented table?

Look for:

- Uses the table rather than treating the flag as certainty.

One possible response: No. Eighteen flagged parts are not defective.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.