

Conditional Probability Changes the Reference Group: Explore and Explain



Name: \_\_\_\_\_ Date: \_\_\_\_\_

Explore the material. Talk through your reasoning with suitable support.

An invented parts inspection

Invented practice data or scenario; not a report of a real study.  
A table describes 100 parts and an inspection flag. A flag is not the same as a confirmed defect.

| Status        | Flagged | Not flagged |
|---------------|---------|-------------|
| Defective     | 8       | 2           |
| Not defective | 18      | 72          |

1. How many parts are flagged?

\_\_\_\_\_

2. What fraction of all parts are both defective and flagged?

\_\_\_\_\_