

Conditional Probability Changes the Reference Group



Name: _____ Date: _____

Use the material to work through each task. Show the requested response.

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?

3. Among flagged parts, what fraction are defective?

4. Among defective parts, what fraction are flagged?

5. Why are the last two fractions different?

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

