

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?

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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?

