

Info Gap: Quality Control

**Problem Card 1**

A factory worker tested the speedometer of a new car by driving it a certain distance at a constant speed. The percent error was too large, so the car was sent back to be fixed. What speed did the speedometer show?

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**Data Card 1**

- The car went 10 miles.
- The car drove for 8 minutes.
- To pass the test, the speedometer must show within 2% of the correct speed.
- The speedometer was showing a speed slower than the car was actually going.

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**Problem Card 2**

A machine is supposed to fill each bottle with the same amount of juice. A particular bottle was tested and the percent error was not too large. How much juice was in the bottle?

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**Data Card 2**

- Each bottle is supposed to be filled with 450 milliliters of juice.
- To pass the test, the bottle must be filled to within 1.5% of the correct amount.
- The bottle was slightly overfilled.

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