

Gloria's diving scores from a recent competition are represented in the stem-and-leaf plot shown below. In this plot, 3 | 4 would be read as 3.4.

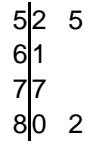
```
5|2 5
6|1
7|7
8|0 2
```

What was her lowest score for this competition?

- A) 0.02
- B) 1.0
- C) 2.5
- D) 5.2
- E) 8.0

**Key**

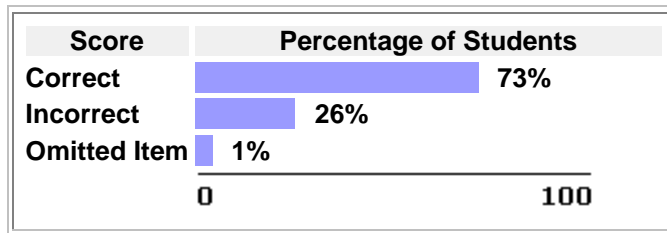
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**2003 National Performance Results**



Note:

- These results are for public and nonpublic school students.
- Percentages may not add to 100 due to rounding.

**Mathematical Content Area:** *Data analysis, statistics, and probability*  
**Mathematical Ability:** *Procedural knowledge*

## Mathematical Content Area

### *Data analysis, statistics, and probability*

This question measures data analysis, statistics, and probability. This content area focuses on the skills of collecting, organizing, reading, representing, and interpreting data. These are assessed in a variety of contexts to reflect the use of these skills in dealing with information. Students are expected to use statistics and statistical concepts to analyze and communicate interpretations of data. Students are also expected to understand the meaning of basic probability concepts and applications of these concepts in problem-solving and decision-making situations.

## Mathematical Ability

### *Procedural knowledge*

This question measures students' procedural knowledge. Students demonstrate procedural knowledge in mathematics when they select and apply appropriate procedures correctly; verify or justify the correctness of a procedure using concrete models or symbolic methods; or extend or modify procedures to deal with factors inherent in problem settings. Procedural knowledge encompasses the abilities to read and produce graphs and tables, execute geometric constructions, and perform noncomputational skills such as rounding and ordering. Procedural knowledge is often reflected in a student's ability to connect an algorithmic process with a given problem situation, to employ that algorithm correctly, and to communicate the results of the algorithm in the context of the problem setting.

|   | <b>Description</b>        | <b>Grade</b> | <b>Type</b>     | <b>Difficulty</b> |
|---|---------------------------|--------------|-----------------|-------------------|
| 1 | Read a stem and leaf plot | 8th          | Multiple Choice | Easy              |