What are all the whole numbers that make 8 - $\square$ > 3 true?

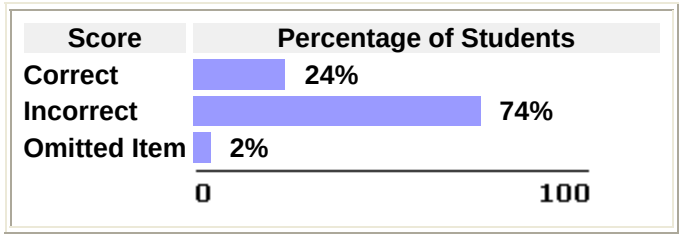
A) 0, 1, 2, 3, 4, 5
B) 0, 1, 2, 3, 4
C) 0, 1, 2
D) 5

Key

What are all the whole numbers that make 8 - ☐ > 3 true?

A) 0, 1, 2, 3, 4, 5
B) 0, 1, 2, 3, 4
C) 0, 1, 2
D) 5

2003 National Performance Results



Note:

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

Content Classification

Mathematical Content Area: *Algebra and functions*
Mathematical Ability: *Conceptual understanding*

Mathematical Content Area

Algebra and functions

This question was classified in the algebra and functions content area. This content area extends from work with simple patterns at grade 4, to basic algebra concepts at grade 8, to sophisticated analysis at grade 12. Students are expected to use grade-level appropriate algebraic notation and thinking in meaningful contexts to solve mathematical and real-world problems, addressing an increasing understanding of the use of functions in grades 8 and 12. Other topics assessed include using open sentences and equations as representational tools and using the notion of equivalent representations to transform and solve number sentences and equations of increasing complexity.

Mathematical Ability

Conceptual understanding

This question measures students' conceptual understanding. Students demonstrate conceptual understanding in mathematics when they provide evidence that they can recognize, label, and generate examples of concepts; use and interrelate models, diagrams, manipulatives, and varied representations of concepts; identify and apply principles; know and apply facts and definitions; compare, contrast, and integrate related concepts and principles; recognize, interpret, and apply the signs, symbols, and terms used to represent concepts. Conceptual understanding reflects a student's ability to reason in settings involving the careful application of concept definitions, relations, or representations of either.