

Term	1	2	3	4
Fraction	$1/2$	$2/3$	$3/4$	$4/5$

If the list of fractions above continues in the same pattern, which term will be equal to 0.95?

- A) The 100th
- B) The 95th
- C) The 20th
- D) The 19th
- E) The 15th

Did you use the calculator on this question?

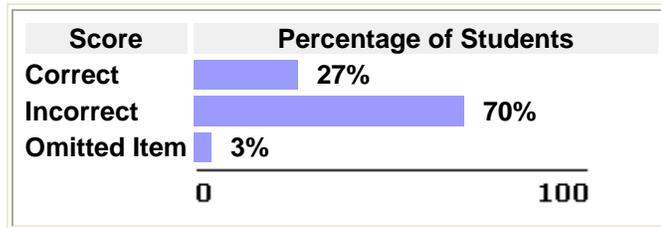
- Yes No

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

Mathematical Content Area

Algebra and functions

This question measures algebra and functions. This content area extends from work with simple patterns, to basic algebra concepts, to sophisticated analysis. Students are expected to use algebraic notation and thinking in meaningful contexts to solve mathematical and real-world problems, addressing an increasing understanding of the use of functions. 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.

	Description	Grade	Type	Difficulty
1	Determine which term in a pattern of fractions will have a specified decimal value (calculator available)	8th	Multiple Choice	Hard