

Facts and Figures
Turning algebra word problems into equations:
Correlation to the National Council of Teachers of Mathematics' *Principles & Standards for School Mathematics* Algebra Standard for Grades 9-12

The following data describe the pages of the skill book *Facts and Figures* that address the National Council of Teachers of Mathematics' *Principles and Standards for School Mathematics* Algebra Standard for students in grades 9-12. The analysis data include the page numbers from the skill book that support or address the area of the standard indicated in the table.

| <i>Principles & Standards for School Mathematics</i> Algebra Standard | Analysis Data |
|---|---|
| Instructional programs should enable all students to understand patterns, relations, and functions. In grades 9 through 12 all students should: | |
| Understand relations and functions and select, convert flexibly among, and use various representations for them. | Pages 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 |
| Instructional programs should enable all students to represent and analyze mathematical situations and structures using algebraic symbols. In grades 9 through 12 all students should: | |
| Use symbolic algebra to represent and explain mathematical relationships. | Pages 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 |
| Use a variety of symbolic representations, including recursive and parametric equations, for functions and relations. | Pages 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 |
| Instructional programs should enable all students to use mathematical models to represent and understand quantitative relationships. In grades 9 through 12 all students should: | |
| Use symbolic expressions, including iterative and recursive forms, to represent relationships arising from various contexts. | Pages 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 |