

Multiple Representations: Verbal to Equations

Note-Taking Guide

TEKS

- 5(4)(B) The student is expected to represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.
- 6(9)(A) The student is expected to write one-variable, one-step equations and inequalities to represent constraints or conditions within problems.
- 7(10)(A) The student is expected to write one-variable, two-step equations and inequalities to represent constraints or conditions within problems.
- 8(8)(A) The student is expected to write one-variable equations or inequalities with variables on both sides that represent problems using rational number coefficients and constraints.
- A(2)(C) The student is expected to write linear equations in two variables given a table of values, a graph, and a verbal description.

Grade Course	Context	Diagram	Equation
5	Mr. Smith had 190 tiles. He sold 40 tiles to his neighbor. He stacked the rest of the tiles into piles in his storage area. Each stack of tiles had 25 tiles. What equation can be used to find s , the number of stacks of tiles Mr. Smith made?		
6	Mr. Smith had 190 tiles. He sold 40 tiles to his neighbor. What equation can be used to find t , the number of tiles Mr. Smith still has?		

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Grade Course	Context	Diagram	Equation
7	<p>Mr. Smith had 190 tiles. He sold 40 tiles to his neighbor. He then stacked the tiles in groups of 25. What equation can be used to find s, the number of stacks of tiles Mr. Smith made?</p>		
8	<p>Mr. Smith and Mrs. Jones each have the same number of tiles. Their tiles are loose or are in boxes.</p> <ul style="list-style-type: none"> • Mr. Smith has b boxes of 25 tiles and 40 loose tiles. • Mrs. Jones has b boxes of 15 tiles and 100 loose tiles. <p>What equation can be used to find b, the number of boxes that Mr. Smith and Mrs. Jones each have?</p>		
Algebra I	<p>Mr. Smith had t tiles. He sold 40 tiles to his neighbor. He then stacked the remaining tiles into groups of 25. What equation can be used to find t, the number of tiles, in terms of s, the number of stacks of tiles Mr. Smith made?</p>		