

Demystify Challenging Problems with Bar Modeling

Bar Modeling, a cornerstone strategy in the Singapore Math curriculum, is a powerful technique that can be used to visualize, conceptualize, and solve a wide variety of higher level problems. We demonstrate some less conventional applications of bar modeling to illuminate and solve many challenging problems, including systems of equations in 2 variables, mixture problems, complex fraction and ratio problems, and applications involving combined work rate, half-life, and other scenarios that students often find challenging.

Targeted Standards:

Standards for Mathematical Practice:

Make sense of problems and persevere in solving them.

Reason abstractly and quantitatively.

Model with mathematics.

Use appropriate tools strategically.

[Target grade levels: 8-College]

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