
**Facilitator's Guidebook
for Use of Mathematics Situations
in Professional Learning**

Facilitator's Guidebook for Use of Mathematics Situations in Professional Learning

Edited by
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NCSM is a mathematics education leadership organization that equips and empowers a diverse education community to engage in leadership that supports, sustains, and inspires high quality mathematics teaching and learning every day for each and every learner

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PREFACE

Mathematics matters. It especially matters for teachers of mathematics and for those who work with teachers in in-service and pre-service settings. The purpose of this Guidebook is to be a tool for facilitators who help teachers to make connections among secondary school mathematics ideas and to value the relevance and power of their understanding of mathematics beyond that which they teach.

The Guidebook and the six Situation Guides it contains are for use in professional learning. Although the volume can be used by an individual teacher, the materials are designed for a facilitator to use with small groups or large groups of teachers. The group might be in a school setting, in a pre-service mathematics or mathematics education course, or in another venue in which teachers are working to enrich their understandings of mathematics and to improve their practice.

One unique feature of the Situations in this book, and the larger set of Situations in *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (Heid & Wilson, 2015), is their origin in the work of teachers.

Facilitator's Guidebook for Use of Mathematics Situations in Professional Learning,
pages vii–viii.

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Rather than imagining the mathematics that teachers encounter, the Situations Project team drew from incidents they had witnessed in the daily work of teaching mathematics. These incidents become prompts to engage teachers in mathematics.

This book is for facilitators and for teachers who seek new mathematical experiences that reveal secondary mathematics as a connected and consistent subject that teachers and their students can enjoy.

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