

# PAM HARRIS

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*equipping math teachers with content &  
pedagogy for student success*

@pwharris

[www.MathIsFigureOutAble.com](http://www.MathIsFigureOutAble.com)

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**MATH IS  
FIGUREOUTABLE!**

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# Problem String

Lesson structure

7 x 8

Series (string) of problems

70 x 8

Intended to facilitate construction  
of relationships and connections in  
the learner's mind

69 x 8

6 x 9

6 x 90

6 x 89

8 x 59

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# Problem String

Lesson structure

$$y = x^2$$

Series (string) of problems

$$y = 3x$$

Intended to facilitate construction of relationships and connections in the learner's mind

$$y = x^2 + 3x$$

$$y = x(x + 3)$$

Problem Strings

Problem Talks

Problem Strings

Problem Talks



Problem Strings

Problem Talks

More Than One Way

Problem Strings

Problem Talks

(short lived)  
More Than One Way

Problem Strings

Problem Talks

“Poke Around” (short lived)  
More Than One Way

Problem Strings

Problem Talks

**Compare Towards  
Efficiency**

“Poke Around” (short lived)  
More Than One Way

# Problem Strings

**Construct**

# Problem Talks

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Series of related problems

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## Construct

Series of related problems

Focused toward  
constructing a particular  
model, big idea, or  
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# Problem Talks

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$15 \times 18$  vs  $37 \times 99$



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80%

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**MATH IS  
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# It's About Relationships

- Among the numbers and structures to solve problems
- Between teachers and students to mentor and nurture young mathematicians

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## Empowering math teachers everywhere.

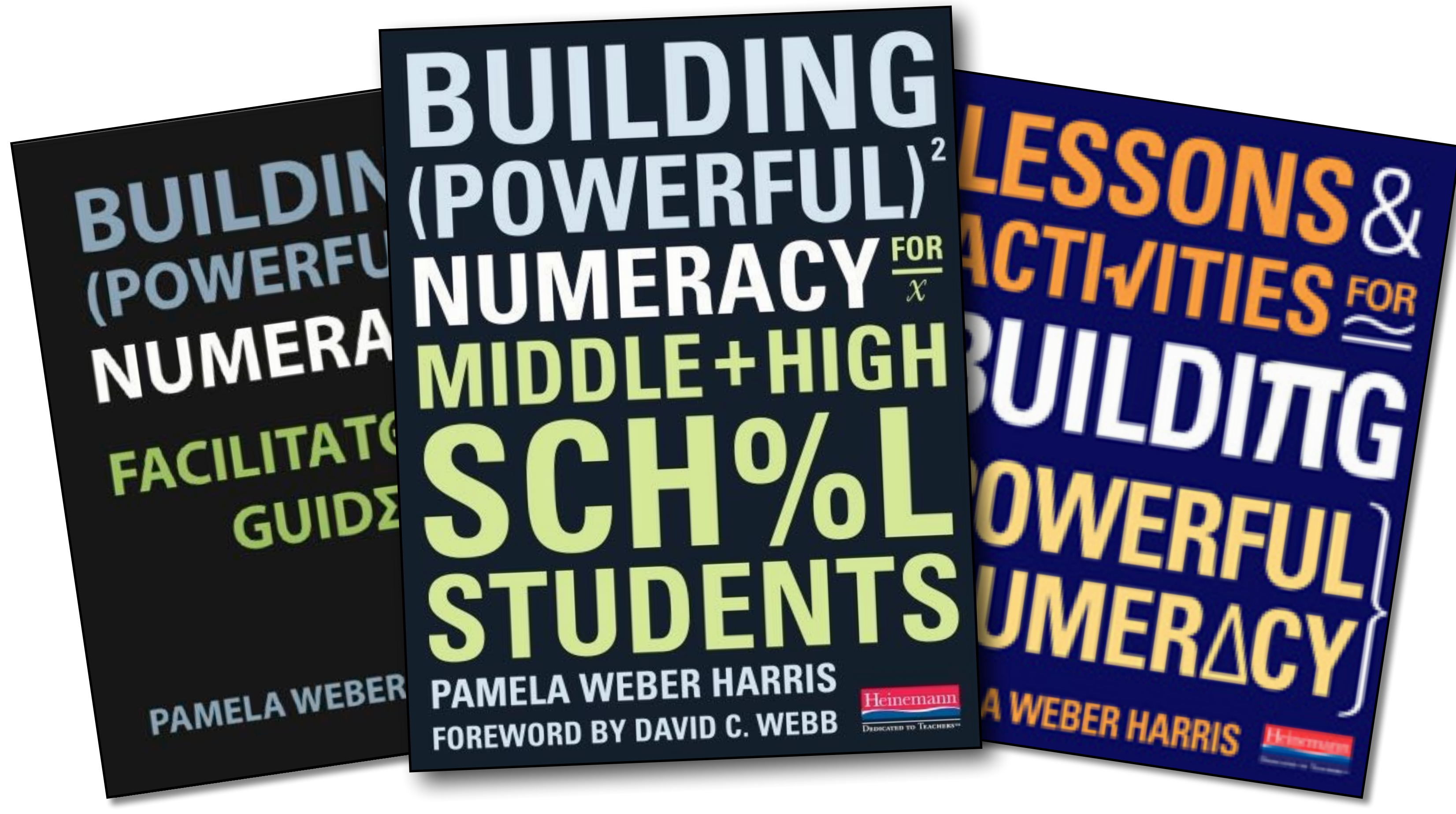
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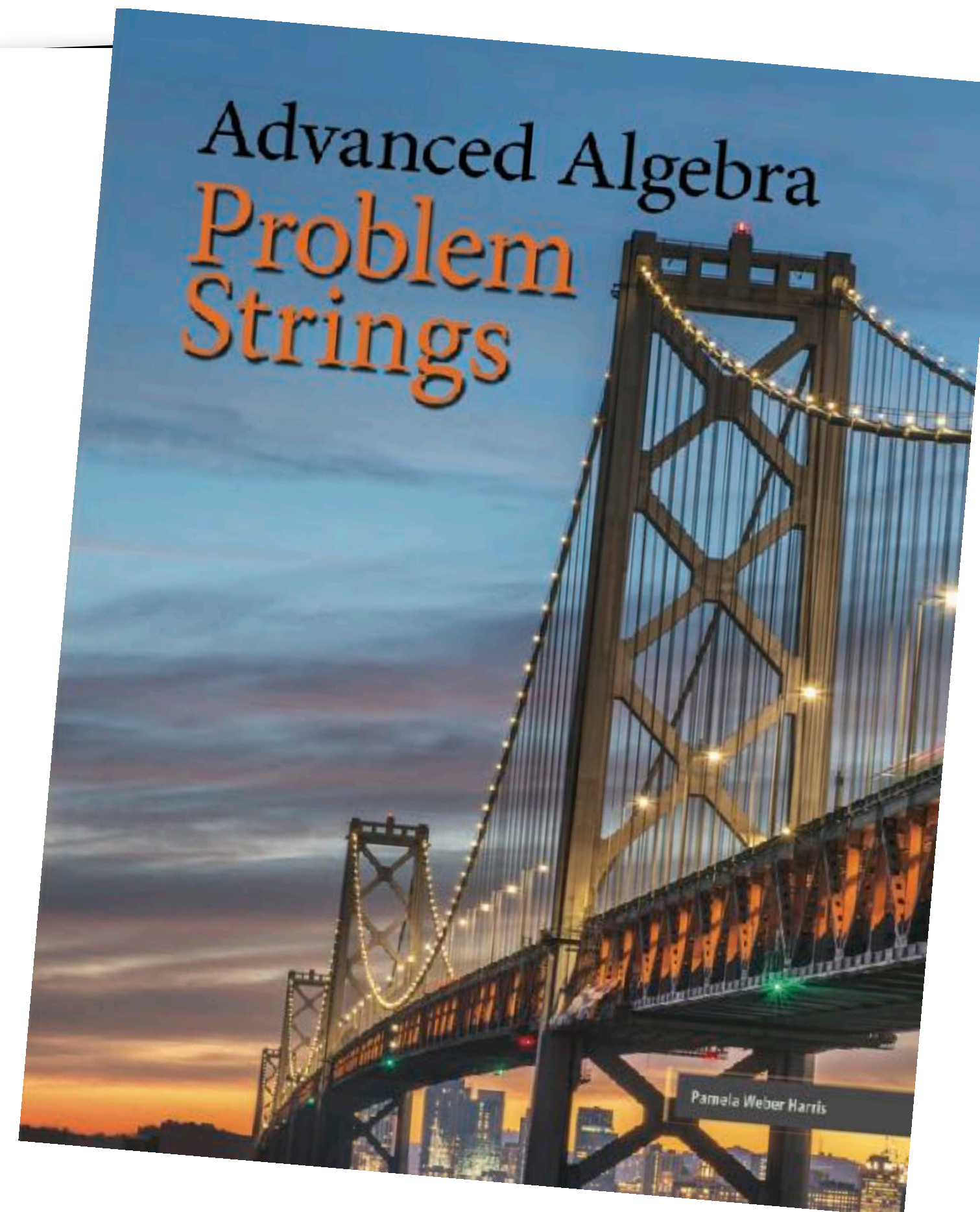
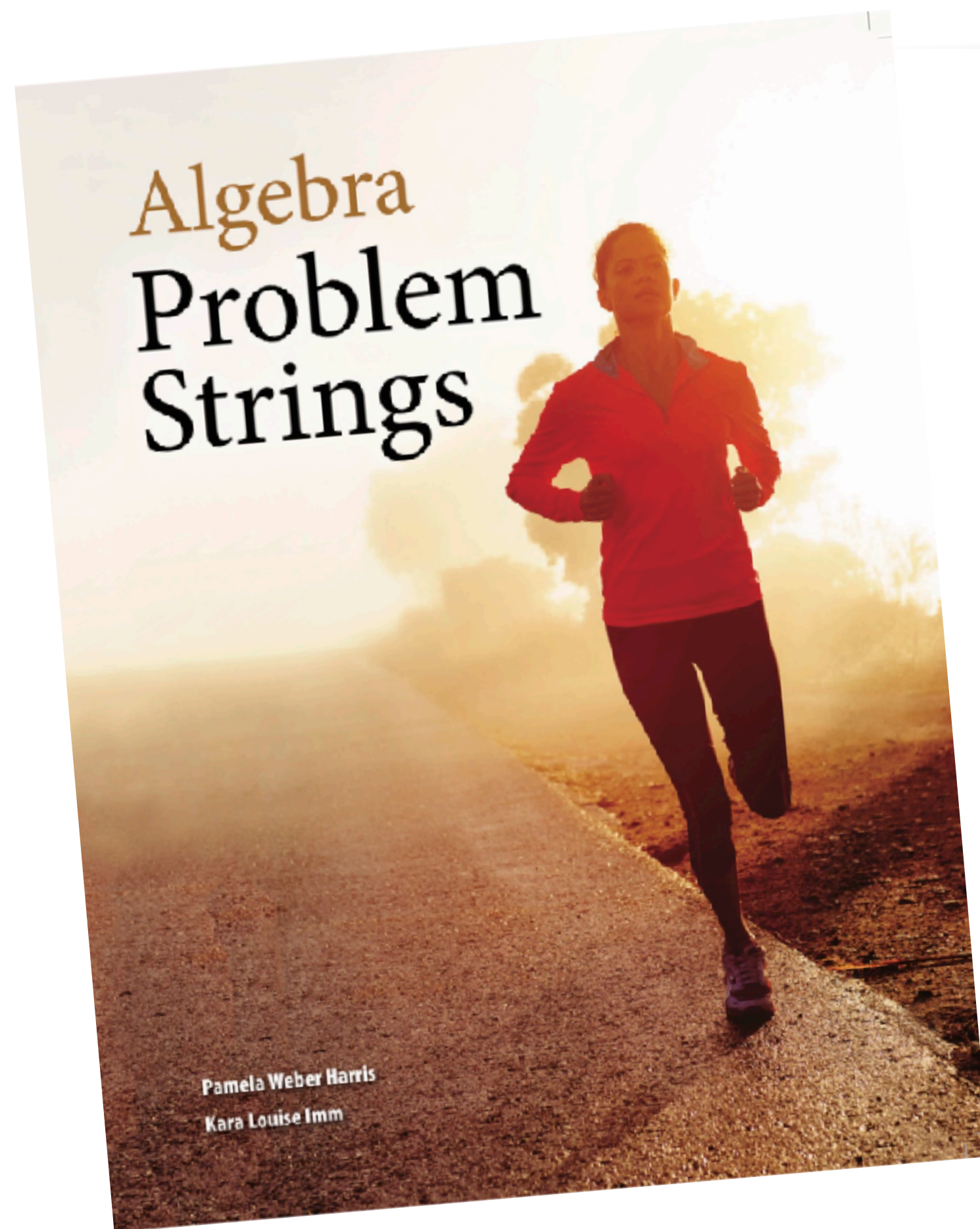


# Numeracy Books





# Problem Strings





# MathStratChat

Be clever • Be original • Be inspired

Join us every Wednesday evening on Twitter and/or Facebook for a new MathStratChat problem. Share your favorite strategy and see how others solve the same problem.

Click on one below to read some of our favorite replies.

Be clever • Be original • Be inspired

**$85 \times 47$**

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**MathStratChat**

Be clever • Be original • Be inspired

**$493 + 289$**

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**MathStratChat**

Be clever • Be original • Be inspired

**$89 \times 42$**

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**MathStratChat**

# QUESTIONS?



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