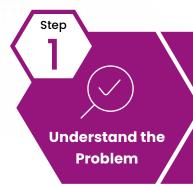


Your Math Modeling Roadmap:

A Checklist for Success!



What's the situation and what am I trying to figure out?

- I can explain the problem in my own words.
- I listed what I notice and what I wonder.
- O I wrote down my questions.
- I listed the key numbers I was given.
- I know what the final goal is.

Step 2



Make a Plan How will I approach this?

What do I need?

- I listed the important quantities or variables.
- I decided what information I might need to look up or measure.
- I decided on what assumptions need to be made.
- I brainstormed what kind of math might help me.

Step



Build the Model How can
I create
something
using a
math visual?

- I created a mathematical representation of the situation (that's a graph, equation or diagram).
- I have labeled my variables and shown my calculations clearly.
- My math work is organized so someone else can see my process.



Step 4



Analyze & Check

Does my answer make sense?

What does it mean?

- I have a solution!
- I checked my calculations for errors.
- I can explain what my numbers and results mean using the original problem situation.
- I asked myself, "Is this answer reasonable?"
- I thought about other possible solutions or outcomes.

Step 5



Revise & Refine

How can my model improve or change?

- I thought about the limits of my model (are there situations where it might not work?).
- I thought about what I could change about my model to make it more accurate.
- I thought about other mathematical tools that might help me make my model clearer.

Step



Report & Share

How can I report and explain my findings?

- I thought about the best way to share my solution (presentation, report, graph).
- I can explain my process, my model, and my conclusion.

