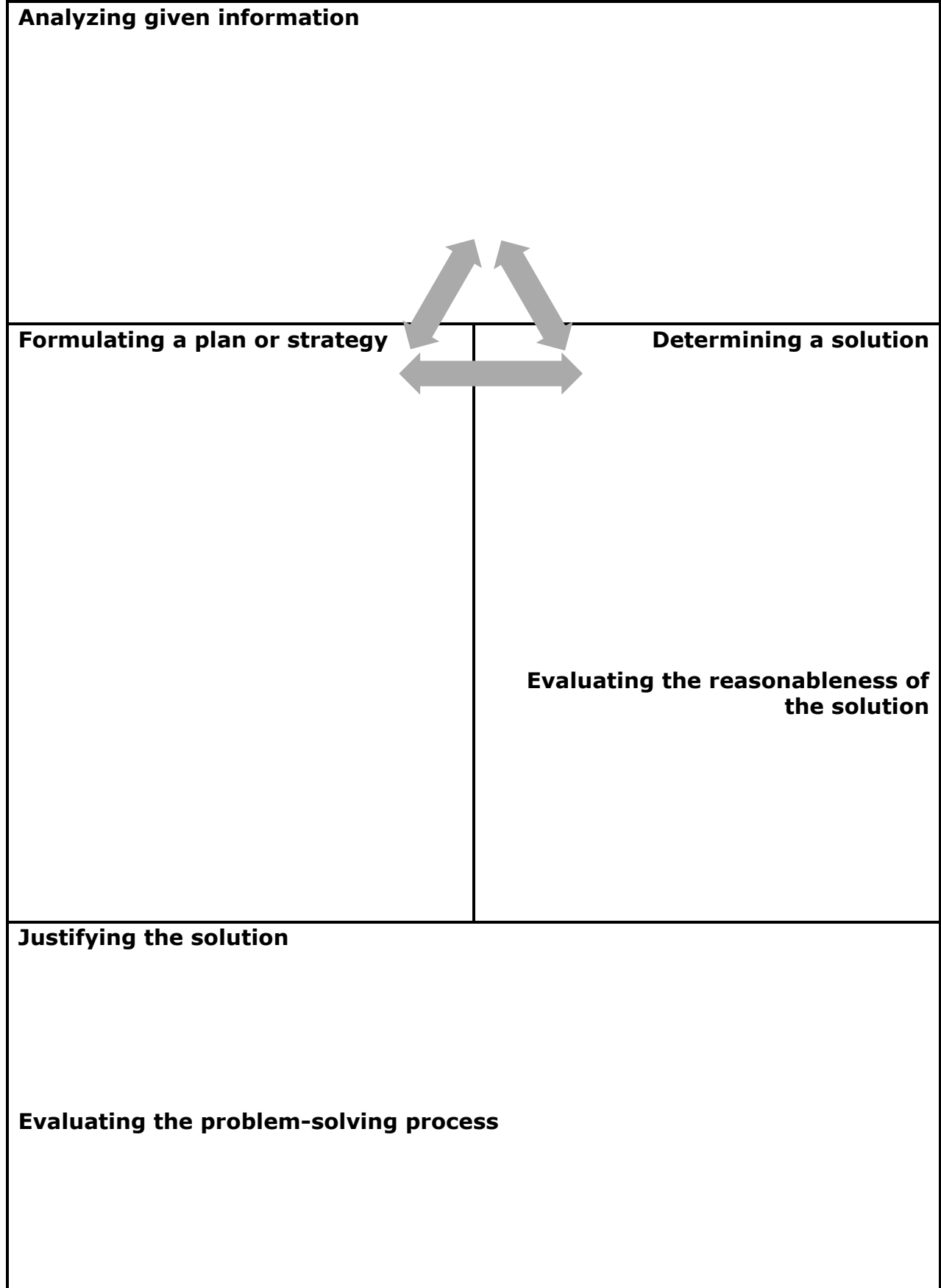




Problem-Solving Model

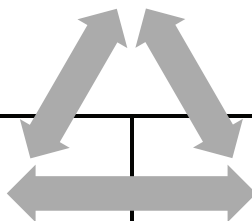




Problem-Solving Prompts

Analyzing given information

- What is the problem asking me to do?
- What information do I know?
- What information do I need to know?
- Have you ever seen a related or similar problem?
- How might I represent the mathematical relationship in the problem?



Formulating a plan or strategy

- What operation(s) are implied by the context of the problem?
- What strategies could be used to solve the problem?
- What is my plan?

Determining a solution

- Does my plan appear to be working? How do I know?
- Do I need to identify a new place to begin again?
- Do I need to use a new strategy?

Evaluating the reasonableness of the solution

- How do I know that my solution is reasonable?
- Why does my solution answer the question?

Justifying the solution

- How can I generalize the thinking used in this problem?

Evaluating the problem-solving process

- What mathematical relationships did I notice during the problem-solving process?
- How well did my plan work? Did I have to revise it?
- Was I able to complete only needed calculations successfully?
- What might I apply in this problem to future problems?