

Figure 1.7

Strategies for Increasing the Cognitive Demand of Tasks

1. Use comparison questions. (When is one situation greater than, equal to, or less than another?)
2. Ask a question across multiple representations in a task.
3. Validate a solution pathway or approach.
4. Require students to provide justifications for (explain) their solutions.
5. Evaluate the error or reasoning in a student solution and provide a correct solution pathway.
6. Create a context. Ask students to write a word problem that creates a context for the given information.
7. Ask students to determine an expression to represent a situation.
8. Create an open-ended debate-type task, so that multiple student responses will satisfy a solution to the mathematical task.