



TASK

JavaScript Data Types and Conditional Statements

Model-Answer Approach

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Auto-graded Task 1

The program correctly prompts the user for various pieces of information by applying the built-in **prompt** function, making it interactive and engaging. The program effectively performs basic mathematical operations like addition, multiplication, and modulo (%) to manipulate the user-provided data. The **Math.round** method is also used for all mathematical operations, to ensure a pleasant user experience, as the output will be rounded off.

The variables are declared with the **const** keyword, which is best practice, as this prevents accidental reassignment of the variable. The variables that are used for the arithmetic operations are cast to a number using the **Number** constructor.

Auto-graded Task 2

The approach used in the program accurately implements the **tiered water billing** structure, addressing different consumption levels and rates. The variables are declared with the **const** keyword, which follows best practices.

The program specifically considers the needs of indigent households, ensuring appropriate bill adjustments or free usage within defined limits. The program effectively uses **if**, **else if**, and **else** statements to handle various scenarios based on user input and consumption levels.

Variables are used meaningfully to store intermediate calculations and improve code clarity. The code is thoroughly commented, which can aid with the readability and maintainability of the code.