Name: _____ **Date:** _____

Tiny Robots, Big Rules: A 1st Grade Logic Adventure

Decomposition, sequencing, and debugging — the core logic skills required to help a digital friend finish its chores and solve tricky puzzles.

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1. A robot needs to put on its shoes. It has a 'Function' called TIE_SHOES. If the robot forgets to put the shoes on its feet first, what happens?

A. The robot skips the task because it is too hard.
B. The computer fixes the mistake automatically.
C. The robot tries to tie the laces in the air (a bug).
D. The robot changes into sandals instead.

2. In a game, you have a box named 'StickerCount'. Every time you win, the number inside changes from 2 to 3. This box is called a _____.

A. Loop
B. Variable
C. Function
D. Bug

3. True or False: A robot uses a 'Condition' to decide whether to carry an umbrella by checking if it is raining outside.

A. True
B. False

4. You want a dancer to clap 100 times. Instead of writing 'Clap' 100 times, which tool should you use to save time?

A. A Variable
B. A Bug
C. A Loop
D. A Keyboard

5. If your code tells a robot to 'Walk forward' but there is a wall in the way, the robot stops. This error in your plan is called a _____.

A. Function
B. Variable
C. Loop
D. Bug

6. True or False: A 'Function' is a set of steps you give a name to so you can use those steps again and again easily.

A. True

Name: _____ **Date:** _____

B. False

7. Identify the 'Condition' in this rule: 'If the plate is empty, then put it in the sink.'

A. Put it in the sink
B. The plate is empty
C. Walking to the kitchen
D. The person eating

8. A chef has a recipe called 'Make_Pizza'. In coding, this group of organized steps is known as a _____.

A. Variable
B. Condition
C. Function
D. Loop

9. True or False: If you change the number in a Variable, the computer forgets the old number and only knows the new one.

A. True
B. False

10. Look at these steps: 1. Open door. 2. Walk through. 3. Close door. If you switch steps 1 and 2, what happens?

A. The robot walks through the closed door and crashes.
B. The robot opens the door twice.
C. The door opens itself automatically.
D. The robot waits for someone else to help.