

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Debug the Playroom: Pre-K Algorithms and Logic Quiz

Sequential thinking and pattern recognition. Little learners follow instruction paths and item-sorting rules to solve everyday puzzles.

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**1. If we want to build a tall tower, what is the FIRST thing we need to do?**

**Answer:** A) Put a block on the floor

In programming, we call this a starting step. You must have a base before you can add more blocks.

**2. When we wash our hands, we use water, then we use \_\_\_\_\_, and then we dry them.**

**Answer:** B) Soap

This follows a sequence of steps. Soap is the specific tool we need in the middle of our hand-washing code.

**3. A robot always does exactly what we tell it to do.**

**Answer:** A) True

Computers and robots follow instructions perfectly, even if we give them a silly instruction!

**4. A loop is like a song that repeats. Which of these is a loop?**

**Answer:** B) Clapping your hands over and over

Repeating an action multiple times is called a loop in computer programming.

**5. If your tummy growls, \_\_\_\_\_ you eat a snack.**

**Answer:** A) Then

This is a conditional (If-Then statement). 'If' something happens, 'then' we do a specific action.

**6. Putting your shoes on before your socks is the right order.**

**Answer:** B) False

Sequence matters! You must put socks on first, or the 'program' of getting dressed won't work correctly.

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**7. We are sorting toys. IF the toy is a car, it goes in the Red Box. Where does a blue truck go?**

**Answer:** B) In the Red Box

The condition was 'if it is a car/truck.' Since it fits the rule, it goes in the assigned box.

**8. To give a robot a command to move, we can use an arrow that points \_\_\_\_.**

**Answer:** A) Forward

Arrows are symbols used to give directional instructions in basic coding.

**9. A 'bug' in a computer program means something is wrong.**

**Answer:** A) True

In technology, a 'bug' is a mistake in the steps that we need to fix.

**10. Which of these is a list of steps for a morning routine?**

**Answer:** A) Wake up, Brush teeth, Get dressed

An algorithm is a list of steps to finish a job. Waking up and getting ready is a daily algorithm.