

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

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

## Blast Busy Bot Barriers: Pre-K Problem Solving Quiz

Design efficient pathways and fix broken routines to help robots navigate tricky obstacles through high-level logical reasoning.

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**1. A robot needs to reach a battery. One path is short but has a puddle (which breaks robots!). The long path is dry. Which path should the robot choose to succeed?**

- A. The short path through the water
- B. The long, dry path
- C. Neither path
- D. Stay still until it runs out of power

**2. A robot is trying to build a tower. It keeps falling over. The robot should \_\_\_\_\_ the problem to see if the bottom block is too small.**

- A. Ignore
- B. Analyze
- C. Hide
- D. Forget

**3. If a robot must pick up a ball and then drop it in a box, it doesn't matter if it tries to drop the ball before picking it up.**

- A. True
- B. False

**4. A robot gardener has three steps: 1. Dig hole, 2. Put seed in, 3. Water. If the robot misses step 2, what happens?**

- A. A flower grows instantly
- B. The robot gets tired
- C. Nothing grows because a step is missing
- D. The robot starts singing

**5. When a robot finds a wall in its path, it must \_\_\_\_\_ its plan to find a way around.**

- A. Sleep
- B. Cry
- C. Change
- D. Stop

**6. A robot can finish its work faster if it skips important steps like 'Open Door'.**

- A. True
- B. False

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**7. Two robots are cleaning. Robot A picks up toys one by one. Robot B uses a big bin to scoop them all at once. Which robot is more efficient?**

- A. Robot A
- B. Robot B
- C. Neither
- D. Both are the same

**8. If a robot is stuck spinning in circles, there is a \_\_\_\_\_ in its instructions that needs fixing.**

- A. Bug
- B. Friend
- C. Cookie
- D. Hat

**9. To paint a whole house, it is helpful to break the job into small parts, like 'Paint the Door' and 'Paint the Window'.**

- A. True
- B. False

**10. A robot chef wants to make toast. It has: 1. Put bread in toaster, 2. Take toast out, 3. Push button down. What is wrong with this order?**

- A. Nothing is wrong
- B. It should eat the bread first
- C. It needs to push the button before taking the toast out
- D. The robot should use a microwave