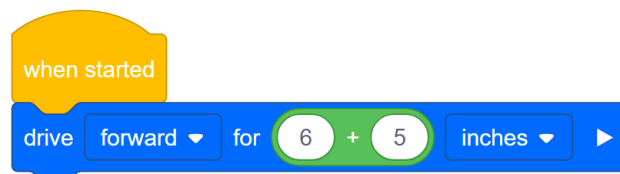


Check your understanding of the concepts in the **Drive Forward and Reverse Unit** by answering these questions:

1. **Shawna estimated that she used 30 pieces to build her Autopilot robot. How would you respond to this estimation?**
 - a. This estimation is too high, and Shawna could count the pieces to confirm.
 - b. Shawna's estimation is fine, because estimations are only random guesses.
 - c. This estimation is too low, and Shawna could find a systematic way to estimate the pieces to revise her estimate.
2. **Troubleshooting is a systematic way to solve a problem by investigating the error and trying possible solutions. Which of the following scenarios would require troubleshooting?**
 - a. The project won't download to the Robot Brain.
 - b. The project runs but does not move the robot.
 - c. The robot does not move the distance you expected it to.
 - d. All of these answers are correct.
3. **True or False: The robot can be programmed to travel in both inches and millimeters.**
 - a. True
 - b. False
4. **In this example program, the robot will continuously move forward. How could you make the robot stop moving forward?**



- a. Add a command to only move forward a certain number of inches.
 - b. Add a command to only move forward a certain amount of time.
 - c. Press the X button on the robot brain while the program is running.
 - d. All of these answers are correct.
5. **In this example program, the robot will:**



- a. Move forward 11 mm.
 - b. Move forward 6 inches, wait and then move 5 inches.
 - c. Move forward 11 inches.
 - d. Move forward 1 inch.
6. **Aaron wants to move his robot forward 40 inches. How could he write the distance for the block?**
- a. $10 + 30$ inches
 - b. 4×10 inches
 - c. 1016 mm
 - d. All of these answers are correct.
7. **The autopilot robot is programmed to move $(5+13)$ inches forward, and $(3+8)$ inches in reverse. How many inches will the robot be from the starting position once the entire program is complete?**
- a. 0 inches
 - b. 11 inches
 - c. -7 inches
 - d. 7 inches
8. **Elise wants to send her Autopilot robot to her friend. The edge of her friend's desk is 64 inches away. The program will move the Autopilot forward 12 inches. How many times would Elise need to run the program to move the Autopilot past the edge of her friend's desk?**
- a. 5 times
 - b. 4 times
 - c. 7 times
 - d. 6 times