Balancing Equations Pre-Assessment ANSWER KEY

1. Rate 1 – 10 with 1 = Not Comfortable and 10 = Very Comfortable.
   a. Do you feel comfortable with solving algebraic equations? ______
   b. Is algebra confusing? ______
   c. Solving equations confusing? ______

2. Circle “Yes” or “No” if you understand any of these terms:
   - Equation: Yes No
   - Integer: Yes No
   - Constant: Yes No
   - Unknown variable: Yes No
   - Coefficient: Yes No

3. Can you solve for the unknown in $2x = 3 - 1$? If yes? 😊 Solve below.

   $$2x = 3 - 1$$
   $$2x = 2$$
   $$\frac{2x}{2} = \frac{2}{2}$$
   $$x = 1$$
4. Have you played with LEGO Mindstorms before? Circle: Yes or No. If yes, where and when?

5. Do you know what a color sensor is? Circle: Yes or No.
   If yes, please explain your definition.

   A color sensor is a sensor that can distinguish between different shadings of light and dark. It is typically used on robots to help them “see” and detect objects of different light and dark contrast.