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.

<div style="color:red">

$$2x = 3 - 1$$

$$2x = 2$$

$$\frac{2x}{2} = \frac{2}{2}$$

$$x = 1$$

</div>

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.**