**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_**

**U10 CW #3** *Solving Single Variable Absolute Value Equations*

What does this symbol mean?

What can *x* represent?

**Directions:** Solve each problem. Show all steps.

**1.** What are the solutions for ? Explain.

**2.** What are the solutions for ? Explain.

**Directions:** Solve each absolute value equation. **SHOW ALL STEPS!!!** Check your solution.

|  |  |
| --- | --- |
| 3. | 4. |
| 5. | 6. |

|  |  |
| --- | --- |
| 7. | 8. |
| 9. | 10. |
| 11. | 12. |
| 13. | 14. |
| 15. Before the start of a professional basketball game, a basketball must be inflated to an air pressure of 8 pounds per square inch (psi) with an absolute error of 0.5 psi. Find the minimum and maximum acceptable air pressures for the basketball. | |