

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

## Worksheet 2

**Topic:** Identifying Equations with Variables

**Instructions:** Identify whether each of the following mathematical expressions is an **equation with a variable** (write "Yes" or "No"). If it is an equation with a variable, write down the variable used.

1.  $a + 12 = 20$

2.  $b - 5 > 10$

3.  $14 = 2p$

4.  $4c < 28$

5.  $\frac{3n}{4} = 9$

6.  $15 - m = 7$

7.  $25 - (10 - 5) = 4 \times 5$

8.  $6 = (2 \times 3) + w$

9.  $x - 8 = 19$

10.  $3y + 2 \leq 14$

11.  $50 = 5z$

12.  $7d \geq 42$

13.  $\frac{2k}{5} < 8$

14.  $11 + h = 33$

15.  $18 - (6 + 2) = 10$

16.  $9 = (3 \times 2) + v$

17.  $p + 14 = 30$

18.  $q - 7 \neq 12$

19.  $24 = 6r$

20.  $8s > 32$

### Answer Key (For Teacher Reference)

1. **Equation with variable:** Yes | **Variable:**  $a$
2. **Equation with variable:** No (It is an inequality) | **Variable:** None
3. **Equation with variable:** Yes | **Variable:**  $p$
4. **Equation with variable:** No (It is an inequality) | **Variable:** None
5. **Equation with variable:** Yes | **Variable:**  $n$
6. **Equation with variable:** Yes | **Variable:**  $m$
7. **Equation with variable:** No (Numerical equation without a variable) | **Variable:** None
8. **Equation with variable:** Yes | **Variable:**  $w$
9. **Equation with variable:** Yes | **Variable:**  $x$
10. **Equation with variable:** No (It is an inequality) | **Variable:** None
11. **Equation with variable:** Yes | **Variable:**  $z$
12. **Equation with variable:** No (It is an inequality) | **Variable:** None
13. **Equation with variable:** No (It is an inequality) | **Variable:** None

14. **Equation with variable:** Yes | **Variable:**  $h$

15. **Equation with variable:** No (Numerical equation without a variable) | **Variable:** None

16. **Equation with variable:** Yes | **Variable:**  $v$

17. **Equation with variable:** Yes | **Variable:**  $p$

18. **Equation with variable:** No (It is a strict inequality / not equal) | **Variable:** None

19. **Equation with variable:** Yes | **Variable:**  $r$

20. **Equation with variable:** No (It is an inequality) | **Variable:** None