

**Algebra 2**  
**Properties of Real Numbers**  
**Properties Practice Sheet**

**Name the set of numbers to which each number belongs.**  
(N-natural, W-whole, Z-integers, Q-rational, I-irrational, and R-real)

- |                  |                |                      |                |
|------------------|----------------|----------------------|----------------|
| 1. 16            | 2. -5          | 3. 16.17             | 4. $\sqrt{19}$ |
| 5. $\frac{2}{5}$ | 6. $\sqrt{36}$ | 7. $6.\overline{35}$ | 8. 8.11        |

**State the property illustrated in each equation.**

- |   |                                       |
|---|---------------------------------------|
| 9. $3(2x - 6) = 6x - 18$                                    | 10. $6 + 3 = 3 + 6$                   |
| 11. $-7 + 7 = 0$  | 12. $5 + (3 + 8) = (5 + 3) + 8$       |
| 13. $20 = 20$   | 14. If $4 + 3 = 7$ , then $7 = 4 + 3$ |
| 15. $5 \cdot \frac{1}{5} = 1$                               | 16. $6(5) = 5(6)$                     |
| 17. If $3 + 2 = 5$ , and $5 = 4 + 1$ , then $3 + 2 = 4 + 1$ |                                       |
| 18. $(9 \cdot 2) \cdot 4 = 9 \cdot (2 \cdot 4)$             | 19. $13 + 0 = 13$                     |
| 20. If $8 - 3 = 5$ , then $8 - 3 = 4 + 1$                   | 21. $-2(1) = -2$                      |
| 22. If $5m = 9$ , then $5m + 7 = 9 + 7$                     | 23. If $4t = 10$ , then $8t = 20$     |
| 24. If $8 + h = 25$ , then $h = 17$                         |                                       |