

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)

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|------------------|----------------|----------------------|----------------|
| 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.

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|---|---------------------------------------|
| 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 $h = 17$ | |