

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 $h = 17$