

Algebra I - Properties Worksheet (Day 1)

Name the property shown in each problem.

1. $3(14) = (14)3$

2. $(74 + 99) + 1 = 74 + (99 + 1)$

3. $\frac{1}{6} + 9 = 9 + \frac{1}{6}$

4. $\frac{1}{5}(15w) = \left(\frac{1}{5} \cdot 15\right)w$

5. $2.1 + y = y + 2.1$

6. $3(8 \cdot 0) = (3 \cdot 8)0$

7. If $7m = 35$, then $35 = 7m$

8. If $3 + p = 12$, then $12 = 3 + p$

9. Every real number is equal to itself.

10. $(5 + q) + -3 = (q + 5) + -3$

11. If $w + 2 = 7$ and $7 = 5 + 2$, then $w + 2 = 5 + 2$

12. $(r + 37) + 23 + s = r + (37 + 23) + s$

Name the property shown in each problem.

13. $pq = qp$

14. $(25 + 84) + 16 = 25 + (84 + 16)$

15. $x + y = y + x$

16. If $3.2 = 8y$, then $8y = 3.2$

17. $(3r)s = 3(rs)$

18. If $x = -3$ and $-3 = z$, then $x = z$

Name the property that justifies each step.

19. $57 + (25 + 13) = 57 + (13 + 25)$

$= (57 + 13) + 25$

$= 70 + 25$

$= 95$
