

Rewrite using the distributive property. Simplify where possible.

1. $4(x + y)$

$4x + 4y$

2. $8(3m + 4n)$

3. $(2x + 3y)7$

4. $\frac{1}{2}(6r + 10s)$

5. $\frac{3}{4}(12x + 16y)$

6. $(54 + 10a)5$

7. $(16 + 13x)10$

8. $(14 + 7a)\frac{1}{7}$

9. $a(3b + 7)$

10. $m(2n + 15)$

Rewrite using the distributive property. Simplify where possible.

11. $7a + 7b$

$7(a + b)$

12. $8x + 8y$

13. $10c + 5d$

14. $20m + 15n$

15. $20x + x$

16. $25x + 9x$

17. $12a + 16a$

18. $26m + 18m$

19. $4 + 4t$

20. $9 + 9x$

Simplify using the commutative and associative properties of multiplication.

21. $2a(7b)$

$14ab$

22. $-3bc(5m)$

23. $5xy(-2x)(-3y)$

24. $7a(-4ab)(2a)$

25. $a(-13b)(22ab)$

26. $-cd(5c)(-7cd)$

27. $-15a(4b)(2bc)$

28. $7x(-9xy)(-8y)$
