

Rewrite using the distributive property. Simplify where possible.

1.  $5(a + b)$

$5a + 5b$

2.  $9(2r + 7s)$  \_\_\_\_\_

3.  $(5c + 2d)(-4)$  \_\_\_\_\_

4.  $\frac{3}{4}(8x + 12y)$  \_\_\_\_\_

5.  $\frac{2}{3}(15x + 21y)$  \_\_\_\_\_

6.  $(17 + 13m)(-3)$  \_\_\_\_\_

7.  $(11 - 9z)13$  \_\_\_\_\_

8.  $(39 - 13c)\frac{1}{13}$  \_\_\_\_\_

9.  $x(5y + 2z)$  \_\_\_\_\_

10.  $m(2n + 15)$  \_\_\_\_\_

Rewrite using the distributive property. Simplify where possible.

11.  $9x + 9y$

$9(x + y)$

12.  $5a + 5b$  \_\_\_\_\_

13.  $12c - 8d$  \_\_\_\_\_

14.  $30m - 15n$  \_\_\_\_\_

15.  $15x + 7x$  \_\_\_\_\_

16.  $17r + 12r$  \_\_\_\_\_

17.  $18a + 24a$  \_\_\_\_\_

18.  $15c + 12c$  \_\_\_\_\_

19.  $9 - 9z$  \_\_\_\_\_

20.  $13 - 13x$  \_\_\_\_\_

Simplify using the commutative and associative properties of multiplication.

21.  $7a(-10bc)$

$-70abc$

22.  $-3ab(2d)(-5)$  \_\_\_\_\_

23.  $-8m(2n)(4mn)$  \_\_\_\_\_

24.  $7x(-3xy)(5y)$  \_\_\_\_\_

25.  $2c(-4abc)(8ab)$  \_\_\_\_\_

26.  $-10d(6cd)(-2d)$  \_\_\_\_\_

27.  $6xy(-4x)(2xy)$  \_\_\_\_\_

28.  $12mn(-8m)(6mn)$  \_\_\_\_\_