

## Multiplying Out Brackets

Remove the brackets in the following expressions:

Example:  $4(a + 2) = 4a + 8$

1.  $6(s + 4)$

2.  $8(p + 7)$

3.  $9(q - 5)$

4.  $7(r - 9)$

5.  $d(d + 3)$

6.  $h(h + 4)$

7.  $k(k - 8)$

8.  $e(e - 2)$

9.  $-3(x + 2)$

10.  $-2(t - 5)$

Multiply out the brackets and collect like terms in the following:

Example:  $4(a + 2) + 10 = 4a + 18$

11.  $5(g + 7) + 13$

12.  $6(d + 8) + 18$

13.  $8(3r + 5) - 24$

14.  $9(4f - 3) - 9$

15.  $6(5w + 3) - 2w$

16.  $9r + 7(5r - 2)$

17.  $6r - 5(6 - 7r)$

18.  $8(4 - y) - 5y$

19.  $4(3w - 5) + 7w$

20.  $6(7 - 2s) - 9s$

See next page for answers.

## Multiplying Out Brackets Solutions

Remove the brackets in the following expressions:

Example:  $4(a + 2) = 4a + 8$

1.  $6(s + 4) = 6s + 24$

2.  $8(p + 7) = 8p + 56$

3.  $9(q - 5) = 9q - 45$

4.  $7(r - 9) = 7r - 63$

5.  $d(d + 3) = d^2 + 3d$

6.  $8(h + 4) = 8h + 32$

7.  $4(k - 8) = 4k - 32$

8.  $e(e - 2) = e^2 - 2e$

9.  $-3(x + 2) = -3x - 6$

10.  $-2(t - 5) = -2t + 10$

Multiply out the brackets and collect like terms in the following:

Example:  $4(a + 2) + 10 = 4a + 18$

11.  $5(g + 7) + 13 = 5g + 48$

12.  $6(d + 8) + 18 = 6d + 66$

13.  $8(3r + 5) - 24 = 24r + 16$

14.  $9(4f - 3) - 9 = 36f - 36$

15.  $6(5w + 3) - 2 = 30w + 16$

16.  $9r + 7(5r - 2) = 44r - 14$

17.  $6r - 5(6 - 7r) = 41r - 30$

18.  $8(4 - y) - 5y = 32 - 13y$

19.  $7 - 4(3w - 5) = 27 - 12w$

20.  $11 - (7 - 2s) = 4 + 2s$